Place serial number here

Owner's Manual
Operation and Maintenance

CAUTION! Risk of Fire! DO NOT *store instruction manuals inside fireplace cavity. High temperatures could cause a fire.*

INSTALLER: Leave this manual with the appliance, not inside the appliance.
CONSUMER: Retain this manual for future reference. Do not store inside the appliance.
Contact your dealer with questions regarding installation, operation or service.

NOTICE: DO NOT *discard this manual!*

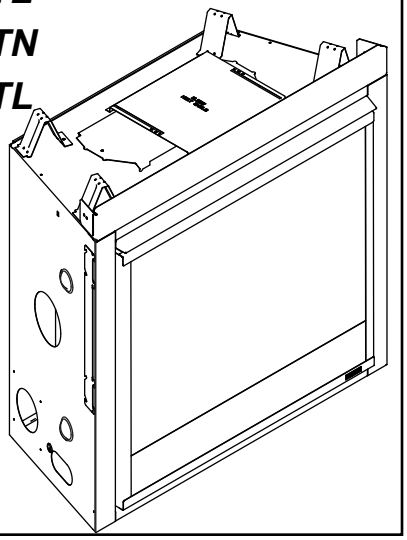
QUARTZ SERIES

Models:

QUARTZ32IFTN
QUARTZ32IFTL
QUARTZ36IFTN
QUARTZ36IFTL
QUARTZ42IFTN
QUARTZ42IFTL

MAJESTIC

GAS-FIRED
c UL us
LISTED



This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* in the United States, or the *Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series,* in Canada.

This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

⚠ WARNING:
FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
  - **DO NOT** try to light any appliance.
  - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
  - Leave the building immediately.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

⚠ DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.

Decorative barrier front provided with this appliance.

Pour demander un exemplaire en français de ce Manuel du propriétaire, visitez www.majesticproducts.com.

1 Welcome

Read this manual before operating this appliance.
Please retain this Owner's Manual for future reference.
Read the Installation Manual before making any installation or finishing changes.

A. Congratulations

Congratulations on selecting a Majestic gas fireplace, an elegant and clean alternative to wood burning fireplaces. The Majestic gas fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Majestic gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Majestic family of fireplace products!

Local Dealer Information

DEALER: *Fill in your name, address, phone and email information here and appliance information below.*

Dealer Name: _____

Address: _____

_____

Phone: _____

Email: _____

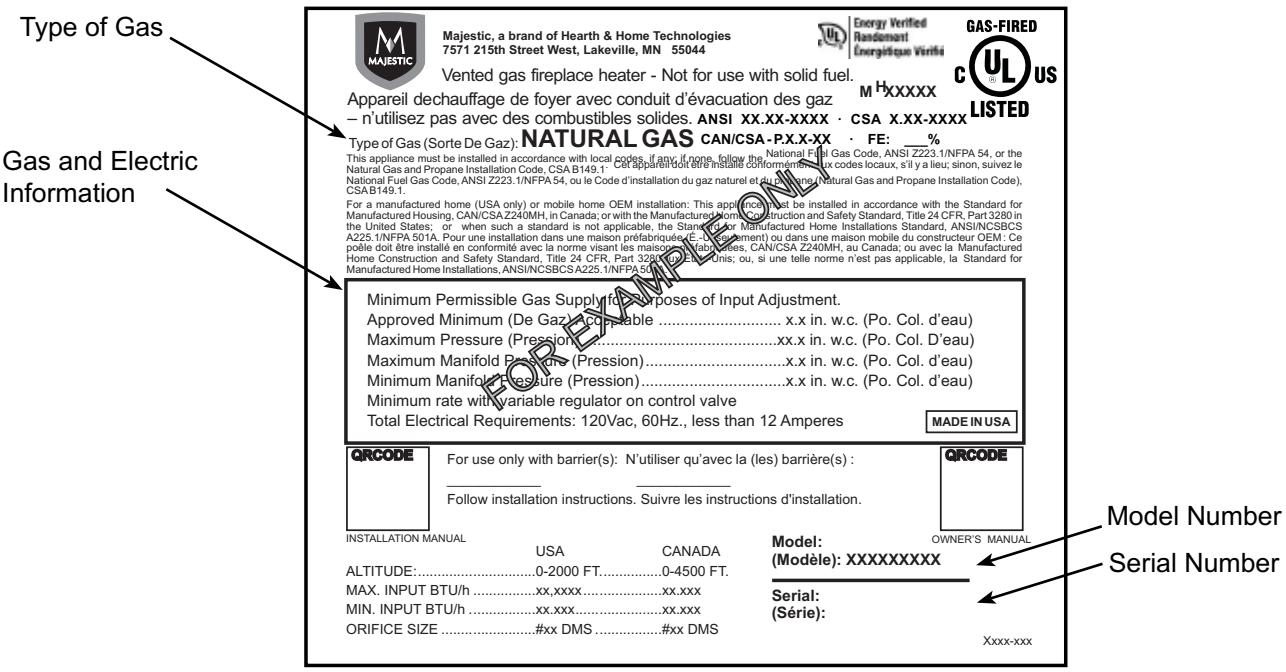
Appliance Information:

Brand: _____ Model Name: _____

Serial Number:_____ Date Installed: _____

Listing Label Information/Location

The model information regarding your specific fireplace can be found on the rating plate usually located in the control area of the fireplace.



⚠ Safety Alert Key:

- ***DANGER!*** *Indicates a hazardous situation which, if not avoided will result in death or serious injury.*
- ***WARNING!*** *Indicates a hazardous situation which, if not avoided could result in death or serious injury.*
- ***CAUTION!*** *Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.*
- ***NOTICE:*** *Used to address practices not related to personal injury.*

Note: *The term "recommend" or "recommended" does not indicate a requirement. It is a best practice suggested by Hearth & Home Technologies®.*

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➔ = Contains updated information.

B. Limited Warranty

Hearth & Home Technologies LLC

LIMITED WARRANTY

Hearth & Home Technologies LLC ("HHT") extends the following warranty for HHT gas, wood, pellet and electric hearth appliances (each a "Product" and collectively, the "Product(s)") and certain component parts set forth in the table below ("Component Part(s)") that are purchased from a HHT authorized dealer or distributor.

WARRANTY COVERAGE:

HHT warrants that the Products and their Component Parts will be free from defects in materials and workmanship for the applicable period of Warranty coverage set forth in the table below ("Warranty Period"). If a Product or Component Parts are found to be defective in materials or workmanship during the applicable Warranty Period, HHT will, at our discretion, repair the applicable Component Part(s), replace the applicable Component Part(s), or refund the purchase price of the applicable Product(s). The maximum amount recoverable under this Warranty is limited to the purchase price of the Product. This Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer. This Warranty is subject to conditions, exclusions, and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins at the date of installation. In the case of new home constructions, Warranty coverage begins six months after invoice of the final sale of the Product(s) by an independent, authorized HHT dealer or distributor. However, the Warranty coverage shall commence no later than 24 months following the date of Product shipment from HHT, regardless of the installation or purchase date.

Warranty Period		**HHT Manufactured Appliances and Venting**				
Component Parts	Labor	Gas	Pellet	Wood	Electric	Component Parts Covered by this Warranty
1 Year		X	X	X		All parts including handles, external enameled components and other material except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
2 Years					X	All parts except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
			X	X		Glass, Electrical components limited to heating element/igniters, Top feed auger assembly, Blowers, Junction Box, Remotes/Wall switches, linear actuator, power cord, vacuum switch, snap disc, wire harnesses and thermocouple
		X				Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)
		X		X		Cement Refractory Panels, Glass Liner Panels
3 years			X			Firepots, burnpots, Harman mechanical feeders
5 years		X		X		Catalysts, Vented and Vent Free burners and logs
10 years	1 year	X				Burners, logs and metal/fiber refractory components of HHT manufactured fireplaces or stoves, venting due to poor workmanship
10 years	3 years		X	X		Castings, Medallions & Baffles, FlexBurn® System (engine, inner cover, access cover and fireback), Firebox and heat exchanger, HHT Chimney & Terminations, Manifolds
20 years	3 years	X				Firebox and heat exchanger
All purchased replacement parts and optional accessories						
1 Year	None	X	X	X	X	All purchased replacement parts and optional accessories

B. Limited Warranty *(continued)*

WARRANTY CONDITIONS:

- Because HHT cannot control the quality of any Products sold by unauthorized sellers, this Warranty only covers Products that are purchased through an HHT authorized dealer or distributor unless otherwise prohibited by law; a list of HHT authorized dealers is available on the HHT branded websites.
- This Warranty is only valid while the applicable Product remains at the site of original installation.
- This Warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the applicable Product is authorized to sell applicable Product.
- Contact your installing distributor or dealer for Warranty service. If the installing dealer or distributor is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking Warranty service from a dealer other than the dealer from whom you originally purchased the applicable Product.
- No HHT consumer should bear cost of warranty service or costs incurred while servicing warranty claims (i.e., travel, gas, or mileage) when the service is performed within the terms of this Warranty. Check with your dealer or distributor in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this Warranty.

WARRANTY EXCLUSIONS:

This Warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under the Warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the Warranty Period are not covered. These parts include: paint, wood and pellet gaskets, firebricks, wood grates, flame guides, batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this Warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the applicable Product in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the applicable Product; (2) failure to install the applicable Product in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operation instructions; (7) installation or use of components not supplied with the applicable Product or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the applicable Product.
- Non-HHT venting components, hearth connections or other accessories used in conjunction with the applicable Product.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas applicable Product is installed.
- HHT's obligation under this Warranty does not extend to the Product's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper Product for the application. Consideration must be given to the Product location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The applicable Product has been over-fired, operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, deformation/warping of interior cast iron structure or components, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The applicable Product is subjected to prolonged periods of dampness or condensation.
- There is any damage to the applicable Product due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF REMEDIES AND LIABILITY:

- **EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. The owner's exclusive remedy and HHT's sole obligation under this Warranty or in contract, tort or otherwise, shall be limited to, at HHT's sole option, replacement of the Component Part(s), repair of the Component Part(s), or refund of the original purchase price of the applicable Product(s). In no event will HHT be liable for any incidental or consequential damages caused by defects in the applicable Product. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from State to State. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE FOR THE APPLICABLE PRODUCT. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.**

2 Product Specific Information

A. Appliance Certification

MODELS: **QUARTZ32IFTN, QUARTZ32IFTL,**
QUARTZ36IFTN, QUARTZ36IFTL
QUARTZ42IFTN, QUARTZ42IFTL

LABORATORY: **Underwriters Laboratories, Inc. (UL)**

TYPE: **Direct Vent Heater**

STANDARD: **CSA / ANSI Z21.88:19 • CSA 2.33:19**

This product is listed to ANSI standards for "Vented Gas Fireplace Heaters" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles", and "Gas Fired Appliances for Use at High Altitudes". Also Certified for Installation in a Bedroom or a Bedsitting Room.

NOTICE: *This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.*

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE. This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.

hearthED FACTORY TRAINING Fuel Your Fire

NFI NATIONAL FIREPLACE INSTITUTE A CERTIFICATION AGENCY

B. Glass Specifications

Hearth & Home Technologies appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the Consumer Product Safety Commission (CPSC). The tempered glass has been tested and certified to the requirements of **ANSI Z97.1** and **CPSC 16 CFR 1202** (Safety Glazing Certification Council **SGCC# 1595** and **1597**. Architectural Testing, Inc. Reports **02-31919.01** and **02-31917.01**).

This statement is in compliance with **CPSC 16 CFR Section 1201.5** "Certification and labeling requirements" which refers to **15** U.S. Code **(USC) 2063** stating "…Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

C. BTU Specifications

Models *(U.S. or Canada)*		**Maximum Input BTU/h**	**Minimum Input BTU/h**	**Orifice Size (DMS)**
QUARTZ32IFTN (NG)	*(0-2000 FT)*	21,000	11,250	#44
QUARTZ32IFTL (PROPANE)	*(0-2000 FT)*	18,500	10,000	#55
QUARTZ36IFTN (NG)	*(0-2000 FT)*	24,000	13,000	#42
QUARTZ36IFTL (PROPANE)	*(0-2000 FT)*	20,500	11,500	#54
QUARTZ42IFTN (NG)	*(0-2000 FT)*	28,500	14,500	#39
QUARTZ42IFTL (PROPANE)	*(0-2000 FT)*	26,000	13,500	#53

3 Important Safety and Operating Information

A. Appliance Safety

WARNING! DO NOT operate fireplace before reading and understanding operating instructions. *Failure to operate fireplace according to operating instructions could cause fire or injury.*

DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

- Keep children away.
- CAREFULLY SUPERVISE children in same room as fireplace.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

High temperatures may ignite clothing or other flammable materials.

- Clothing, furniture, draperies, and other flammable materials must not be placed on or near the appliance.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals. DO NOT operate the appliance with the barrier removed. If the barrier becomes damaged, the barrier must be replaced with the manufacturer's barrier for this appliance.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns.

  A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.
- Never leave children alone near a hot fireplace, whether operating or cooling down.
- Teach children to NEVER touch the fireplace.
- Consider not using the fireplace when children will be present.

Contact your dealer for more information, or visit: www.hpba.org/Product-Info/Fireplace-Stove-Heater/Glass-Fronts-Safety.

To prevent unintended operation when not using your fireplace for an extended period of time (summer months, vacations, trips, etc):

- Remove batteries from remote controls.
- Turn off wall controls.
- Unplug 6 volt adapter plug (IPI) and remove batteries.
- Set the selector switch on the control module to the OFF position and remove batteries.

WARNING: This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Clear Space

WARNING! DO NOT *place combustible objects in front of the fireplace or block fireplace openings. High temperatures could start a fire. See Figure 3.1.*

Avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat could damage these objects.

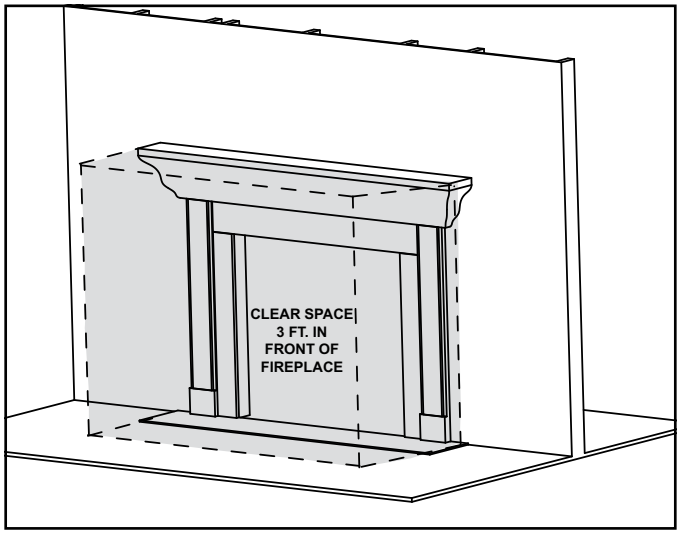


Figure 3.1 Clear Space Requirement - All Models

B. General Operating Parts

Figure 3.2 references the general operating parts of the appliance and the section of this manual in which they are discussed.

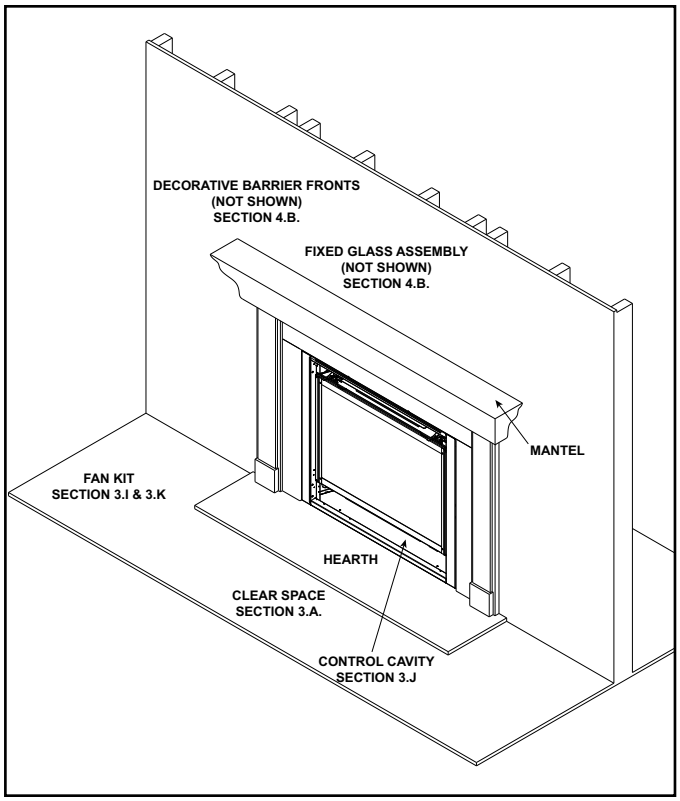


Figure 3.2 General Operating Parts

C. Fuel Specifications

WARNING! Risk of Fire or Explosion! *Appliance must be set up for compatible gas type!*

- This appliance is designed to operate on either natural gas or propane. Make sure the appliance is compatible with gas type selected for installation site.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

D. Wall and Mantel Temperatures

ANSI/CSA Standards

The American National Standards Institute (ANSI) and Canadian Standards Association (CSA) write the safety and performance standards to which all gas fireplaces are tested. The following are the allowable temperatures around and on a gas fireplace per the ANSI/CSA standards:

Combustible Mantel and Surfaces around a Fireplace

The allowable temperature rise above ambient is 117°F for all exposed combustible surfaces around the fireplace, including the mantel, when installed according to the installation instructions. Non-combustible surfaces and mantels do not have a maximum temperature limit; however the installation instructions must still be followed for any restrictions on placement of non-combustible materials on or around the fireplace.

Example: The mantel above a fireplace in a room that is 70°F is allowed to reach but not exceed 187°F (70°F+117°F = 187°F).

E. Good Faith Wall Surface/TV Guidelines

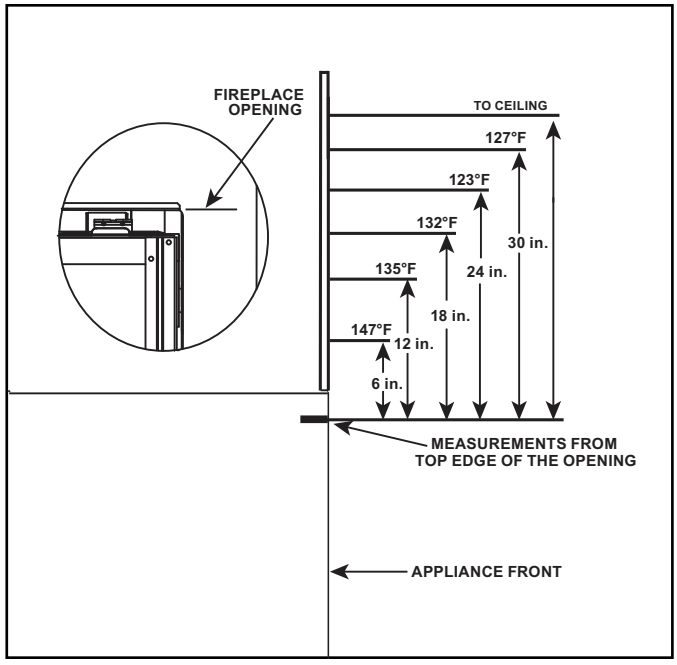
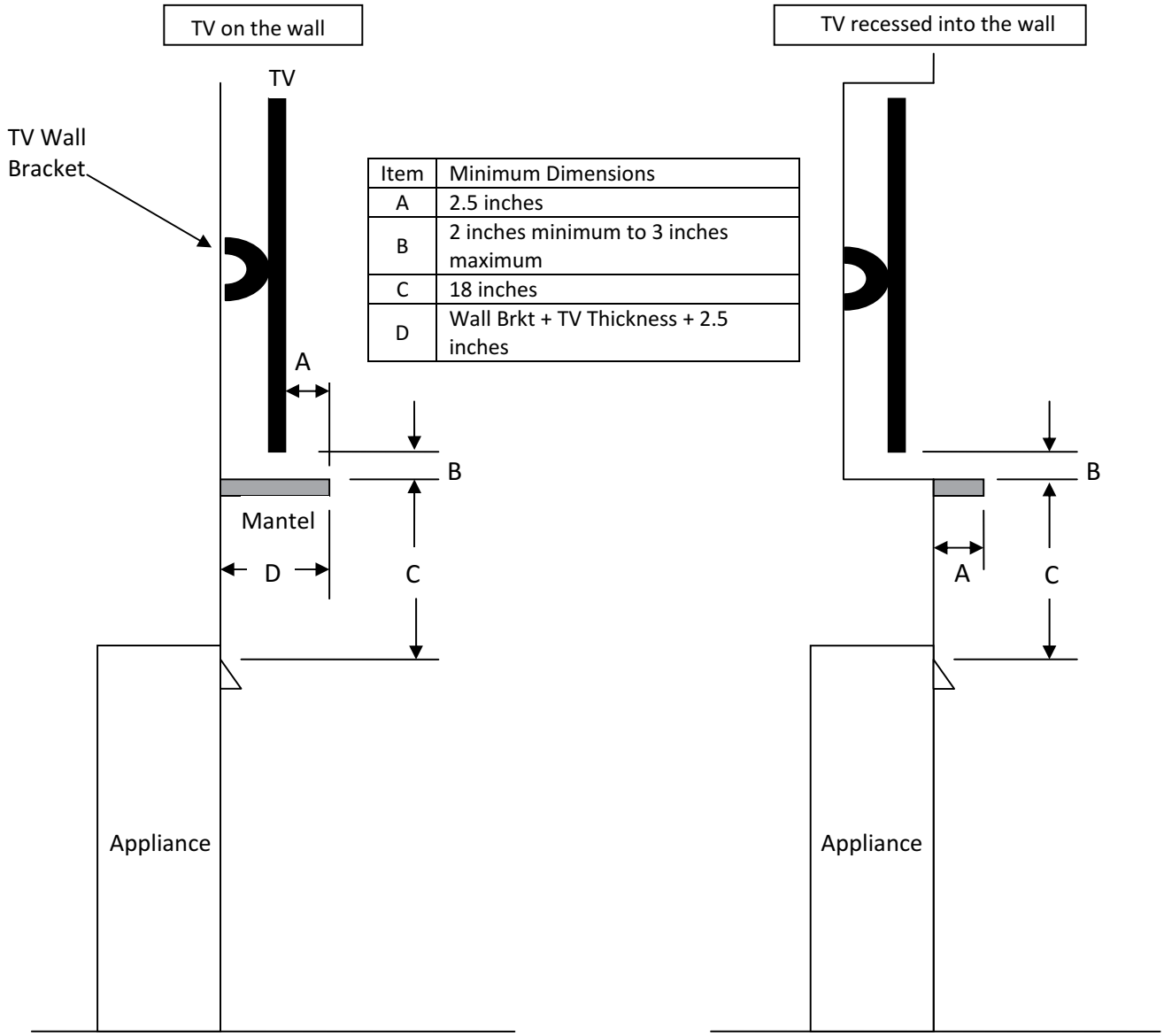


Figure 3.3 Good Faith Wall Surface Temperatures Above Appliance

NOTICE: *Surface temperatures listed above are taken with a temperature measuring probe as prescribed by the test standard used for appliance certification. Temperatures on walls or mantels taken with an infrared thermometer may yield increased temperatures of up to 30 °F (17 °C) or more depending on the thermometer settings and material characteristics being measured. Use appropriate finishing materials that are able to withstand these conditions. For additional finishing guidelines, see Section 10 in the appliance installation manual.*

Good Faith Guidelines for TV Installations Above Appliance



Item	Minimum Dimensions
A	2.5 inches
B	2 inches minimum to 3 inches maximum
C	18 inches
D	Wall Brkt + TV Thickness + 2.5 inches

Notes:

1. These are good faith recommended clearances only and not a guarantee of compliance with all TV manufacturers' maximum allowable operating temperatures.
2. Since every home has unique air flow characteristics and maximum allowable operating temperatures can vary from manufacturer to manufacturer and from model to model, actual TV temperatures should be validated at the time of each installation. TVs should not be used in situations where the actual TV temperature exceeds the manufacturers' maximum allowable operating temperatures identified in the TV's technical specifications. Contact the TV's manufacturer directly if you cannot locate this information or have questions regarding the information.
3. Mantel height and depth must conform to mantle requirements specified in the appliance installation manual.
4. "C" dimension taken from the top of the hood or appliance opening.
5. Suggestions on how to further reduce TV temperatures:
    a. Increase "A" dimension.
    b. Increase "C" dimension, however, increasing "B" dimension beyond maximum recommended typically results in higher temperatures.

Figure 3.4 Good Faith TV Guidelines

F. Before Lighting Appliance

Before operating this fireplace for the first time, **it is recommended that a qualified service technician**:

- Verify all shipping materials have been removed from inside and/or underneath the firebox.
- Review proper placement of logs, ember material and/or other decorative materials.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position and that the integral barrier is in place.

***WARNING! Risk of Fire or Asphyxiation! DO NOT** operate fireplace with fixed glass assembly removed.*

G. Lighting Instructions (IPI)

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the burner. **DO NOT** try to light the burner by hand.

B. **BEFORE LIGHTING**, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- **DO NOT** try to light any appliance.
- **DO NOT** touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

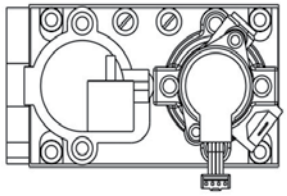
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, **DO NOT** try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. **DO NOT** use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS (IPI)

1. This appliance is equipped with an ignition device which automatically lights the burner. DO NOT try to light the burner by hand.

GAS VALVE



2. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the Safety Information located on the top of this label. If you do not smell gas, go to next step.
3. To light the burner:
   Equipped with wall switch: Turn ON/OFF switch to ON.
   Equipped with remote or wall control: Press ON or FLAME button.
   Equipped with thermostat: Set temperature to desired setting.
4. If the appliance does not light after three tries, call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Equipped with wall switch: Turn ON/OFF switch to OFF.
   Equipped with remote or wall control: Press OFF button.
   Equipped with thermostat: Set temperature to lowest setting.
2. Service technician should turn off electric power to the control when performing service.

DANGER

HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.

WARNING:

DO NOT CONNECT LINE VOLTAGE (110/120 VAC OR 220/240 VAC) TO THE CONTROL VALVE.

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

WARNING: This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

CAUTION:

Hot while in operation. DO NOT touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

DO NOT operate the appliance with fixed glass assembly removed, cracked or broken. Replacement of the fixed glass assembly should be done by a licensed or qualified service person.

NOT FOR USE WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

Also Certified for Installation in a Bedroom or a Bedsitting Room.

This appliance must be installed in accordance with local codes, if any; if none, follow the *National Fuel Gas Code, ANSIZ223.1/ NFPA 54, or the National Gas and Propane Installation code, CSA B149.1.*

For additional information on operating your Hearth & Home Technologies fireplace, please refer to www.hearthnhome.com.

593-913K

H. Appliance Break-In

NOTICE! Open windows for air circulation during fireplace break-in.

- *Some people may be sensitive to smoke and odors.*
- *Smoke detectors may activate.*

Follow the initial break-in procedure below to cure the materials used to manufacture the fireplace and the finishing materials around it.

- The fireplace should be run three to four hours continuously on high.
- Turn the fireplace off and allow it to cool completely.
- Remove fixed glass assembly. See Section 4.B.
- Clean fixed glass assembly. See Section 4.B.
- Replace the fixed glass assembly.

Note: Some installations may require additional run time to cure. If odors persist after the initial break-in period, run the fireplace for an additional three to four hours continuously on high.

Note: Some IPI systems have a safety feature that automatically shuts down the fireplace after 9 hours of continuous operation without receiving a command from the remote control. If this occurs, restart the appliance.

I. Heat Management

Heat Output

If an optional fan is installed, the fan speed is controlled by adjusting the speed control knob. Turn the knob clockwise to increase the fan speed and counterclockwise to decrease the fan speed.

Burn Rate

These models have a variable burn rate which is controlled by the remote control. Therefore the flame height is adjustable.

The flame height may be adjusted as desired by locating the flame option on the remote control and adjusting up or down to desired flame height.

Optional Heat Management Systems

An optional heat management system, which allows the heat from the appliance to be redirected as desired, may be installed with this appliance. It may be either a Heat-Zone®-Gas, which diverts heat into an adjacent room, and/or a HEAT-OUT-GAS which will divert heat outside the home/building.

Refer to Section 6 of the appliance installation manual to confirm which of the heat management systems may be installed together. All heat management systems must be installed by a qualified service technician at the time of appliance installation.

Optional Heat-Zone®-Gas Kit

The HEAT-ZONE®-GAS heat management option is available for use with this appliance and must be used in conjunction with the IFT-RC400 control. The Heat-Zone Kit draws heat from your fireplace to an adjacent room in your home, up to 20 feet away.

Optional Heat-Out-Gas Kit

The HEAT-OUT-GAS heat management option is available for use with this appliance and is operated with a wall switch. The Heat-Out-Gas kit draws heat from your fireplace and directs it outside, up to 25 feet away.

J. Operation During A Power Outage - IntelliFire Touch®

The IntelliFire Touch intermittent pilot ignition system comes with a battery backup system that enables the system to operate in a power outage. The system offers seamless transition from household AC power to battery backup. A factory-installed battery pack is located in the control cavity of the appliance. See Figure 3.5. Battery longevity and performance will be affected by long term exposure to the service temperatures of this appliance.

NOTICE: *Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Batteries tend to corrode over time.*

To Operate Fireplace Using Battery Power (DC):

1. Access the control cavity of the appliance. See Figure 3.5 for location. The decorative barrier front and front refractory may need to be removed.
2. Locate the battery tray and insert four AA cell batteries. Battery polarity must be correct or module damage will occur. See Figure 3.5. A complete wiring diagram is included in the Electrical section of the appliance Installation Manual.
3. Turn the appliance on according to the instructions below for the appropriate type of control:

Standard Wall Switch or Factory-Installed ON/OFF Switch:

- Toggle the switch as you would under normal circumstances.

Wireless Remote:

- Remote receiver is integrated into the ignition module
- Use the remote to turn the appliance on.
- To preserve battery life, do not use the HI/LO flame or THERMOSTAT options.

Ignition Module:

- Locate the ignition module in the control cavity.
- Slide the ON/REMOTE/OFF switch to the ON position.

NOTICE: *Some functionality will be lost when using battery backup including fan, lights, or any other auxiliary functions that require household 110-120 VAC power.*

To Return to Operation Using Electrical (AC) Power

Standard Wall Switch or Factory-Installed ON/OFF Switch:

- Toggle the switch to OFF and remove the batteries from the battery tray. Replace door or decorative barrier front on appliance.

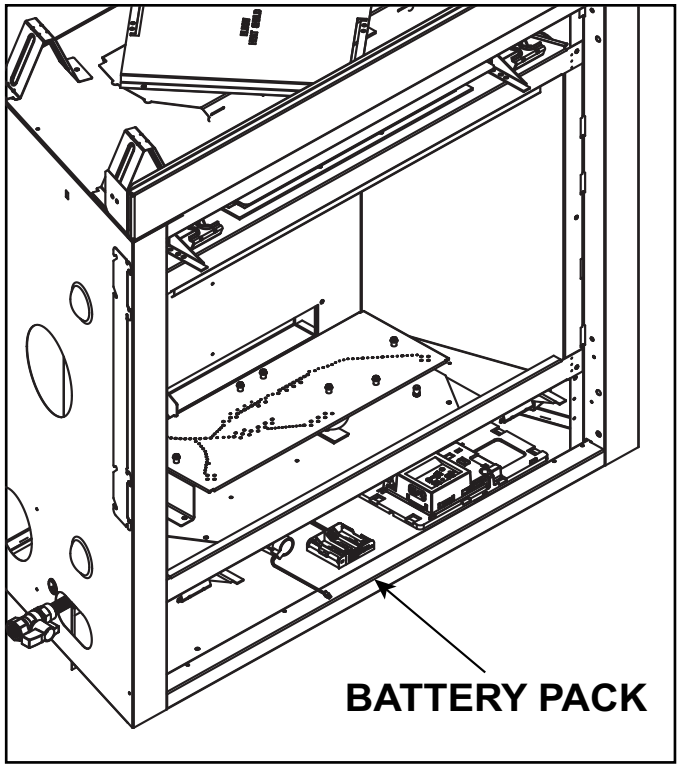
Wireless Remote:

- Slide the ON/REMOTE/OFF switch to the REMOTE position. Remove the batteries from the battery tray. Replace door or decorative barrier front on appliance.

Ignition Module:

- Slide the ON/REMOTE/OFF switch to the REMOTE position.

  Remove the batteries from the battery tray. Replace door or decorative barrier front on appliance.



3.5 Battery Pack Located in Control Cavity

K. Detailed Component Operating Instructions - IntelliFire Touch

IFT-ECM Detailed Operating Instruction

The IFT-RC400 and IFT-RC150 remotes are an option for this model. The IntelliFire® Wi-Fi module (IFT-WFM) is also an option.

1. The Electronic Control Module (IFT-ECM) has a three-position ON/OFF/REMOTE selector switch that must be set for proper operation. See Figure 3.6. When changing switch positions, it is important to pause in each position for 1-2 seconds.

   OFF Position:

   The appliance will not respond to any commands from a wired wall switch, IFT-RC150 or IFT-RC400 remote controls. The unit should be in the OFF position during service, fuel conversion, and to reset the IFT-ECM in the event the system goes into a LOCK-OUT mode as the result of a system error. When switched to the OFF position while the appliance is operating, the system will shut down.

   ON Position:

   The appliance will ignite and run continuously at the HI flame setting. No adjustment in flame height is possible.

   Remote Position:

   The remote position allows operation of the appliance from a wired wall switch, IFT-RC400 or IFT-RC150 remote controls. The IFT-ECM switch must be in this position to pair the IFT-ECM with the IFT-ACM (if installed), and/or IFT-RC400 and IFT-RC150 remote controls. See the IFT-RC400 or IFT-RC150 installation manual for detailed instructions on pairing the IFT-ECM with the remote controls. After successfully pairing a IFT-RC400, all installed accessories can be controlled by the IFT-RC400 (see IFT-RC400 user manual). The RC150 allows the user to turn ON/OFF the flame in the appliance and activate the Cold Climate mode if desired. The IFT-ECM has a safety feature that will automatically shut down the fireplace after 9 hours of continuous operation without receiving a command from the IFT-RC400 or IFT-RC150.

The IFT-ECM has a safety feature that will automatically shut down the fireplace after 9 hours of continuous operation in the ON position, except when operated in active thermostat mode.

2. If multiple control options are installed, the IFT-ECM will respond to the last command from the wired wall switch, IFT-RC400 or IFT-RC150. The wired wall switch is NOT available if a Power Vent is used.

3. The Pilot button on the IFT-ECM activates the Cold Climate function of the fireplace. This function lights the pilot flame ONLY to provide enough heat in the firebox to reduce condensation in cool, high humidity ambient conditions. To activate the Cold Climate press and hold the Pilot button for one second and release. The IFT-ECM will flash two green LED blinks, beep twice and light and rectify the pilot flame when pressed to activate. To turn off Cold Climate, press and hold the Pilot button for one second and release. The IFT-ECM will flash one green LED blink, beep once and shut down the pilot flame. If remote controls are paired with the IFT-ECM, this feature can also be activated with the IFT-RC400 and/or IFT-RC150.

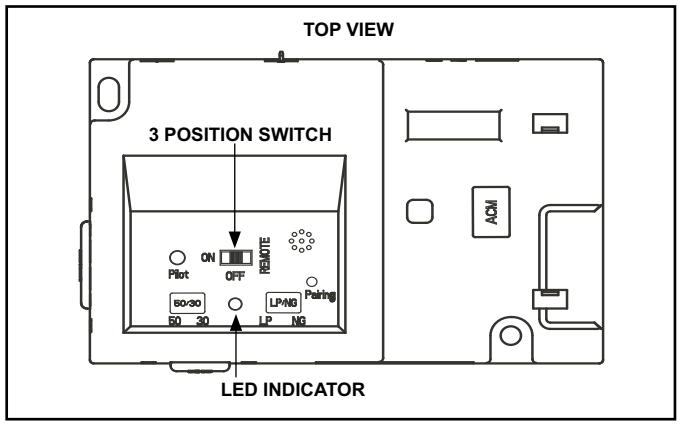


Figure 3.6 IFT-ECM

DANGER

Risk of Explosion

DO NOT cycle the ON/OFF/REM selector switch more than one time within a five minute period. Gas may accumulate in firebox. Call a qualified service technician.

4. An IFT-ECM reset is required if the module is in a lock-out condition. When this occurs, the appliance is shut down and the IFT-ECM status indicator LED will be blinking a RED/GREEN error code along with a one-time audible double- beep. If the IFT-ECM is in a lock-out condition, refer to the troubleshooting chart to interpret the error code and take corrective action as required. To reset the IFT-ECM after a lock-out error:

CAUTION! Risk of burns! *Appliance surfaces are hot when operating and during cool down. Use care and wear gloves when opening the front and accessing components inside the appliance.*

- Be aware the appliance may be HOT, use care in accessing the IFT-ECM.
- Set the IFT-ECM 3-position selector switch to OFF position.

- Wait five (5) minutes to allow possible accumulated gas to clear.
- Set the IFT-ECM 3-position selector switch to ON or REMOTE position. Module will beep once and flash a three GREEN LED code on successful startup.
- If placed in ON position, the appliance will ignite normally if the error condition was corrected.
- If placed in REMOTE position, use the paired IFT-RC400, IFT-RC150 or wired wall switch to start the appliance; appliance will ignite normally if the error condition was corrected.
- If the IFT-ECM re-enters the lock-out condition after these steps, call your dealer for service.

Appliance ON/OFF:

A wall control, thermostat or remote control may be used to control the ON/OFF function of the appliance. Follow instructions included with the installed control.

Optional Fan Kit

If desired, a fan kit may be added. Contact your dealer to order the correct fan kit.

Wi-Fi (Optional)

If desired, a Wi-Fi module (IFT-WFM) may be added to allow the appliance to be run via an app. Contact your dealer to order.

4 Maintenance and Service

IMPORTANT! Any safety screen, decorative barrier front or guard removed for servicing must be replaced prior to operating the fireplace.

When properly maintained, your fireplace will give you many years of trouble-free service. **Contact your dealer** to answer questions regarding proper operation, trouble-shooting and service for your appliance. Visit www.majesticproducts.com to locate a dealer. We recommend annual service by a qualified service technician.

A. Maintenance: Frequency and Tasks

Task	Frequency	To be completed by
Glass Cleaning	Seasonally	Homeowner
Surrounds, Decorative Barrier Fronts	Annually	
Remote Control	Seasonally	
Venting and Termination Cap	Seasonally	
Gasket Seal and Glass Inspection	Annually	Qualified Service Technician
Log Inspection	Annually	
Firebox Inspection	Annually	
Control Compartment & firebox Top	Annually	
Pilot and Burner Ignition & Operation	Annually	
Electrical Service and Repair	As needed	

B. Maintenance Tasks - Homeowner

Installation and repair should be done by a qualified service technician only. The appliance should be inspected before use and at least annually by a professional service person.

The following tasks may be performed annually by the homeowner. If you are uncomfortable performing any of the listed tasks, please call your dealer for a service appointment.

More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

CAUTION! Risk of Burns! *The fireplace shall be turned off and cooled before servicing.*

Glass Cleaning

Frequency: Seasonally

By: Homeowner

Tools Needed: Protective gloves, gas fireplace glass cleaner, drop cloth and a stable work surface.

CAUTION! Handle fixed glass assembly with care. *Glass is breakable.*

- *Avoid striking, scratching or slamming glass*
- ***DO NOT*** *use abrasive cleaners*
- ***DO NOT*** *clean glass while it is hot*

- Prepare a work area large enough to accommodate fixed glass assembly and decorative barrier front by placing a drop cloth on a flat, stable surface.

Note: Fixed glass assembly and gasketing may have residue that can stain carpeting or floor surfaces.

- Remove decorative barrier front from fireplace and set aside on work surface.
- Clean glass with a non-abrasive, non-ammonia based, commercially available gas fireplace glass cleaner.
  - Light deposits: Use a soft cloth with soap and water
  - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer)

Removing Fixed Glass Assembly

- Remove decorative barrier front from fireplace and set aside on work area.
- Pull the four glass assembly latches out of the groove on the glass frame. Remove glass assembly from the appliance. See Figure 4.1.

Replacing Fixed Glass Assembly

- Replace the glass assembly on the appliance. Pull out and latch the four glass assembly latches into the groove on the glass frame.

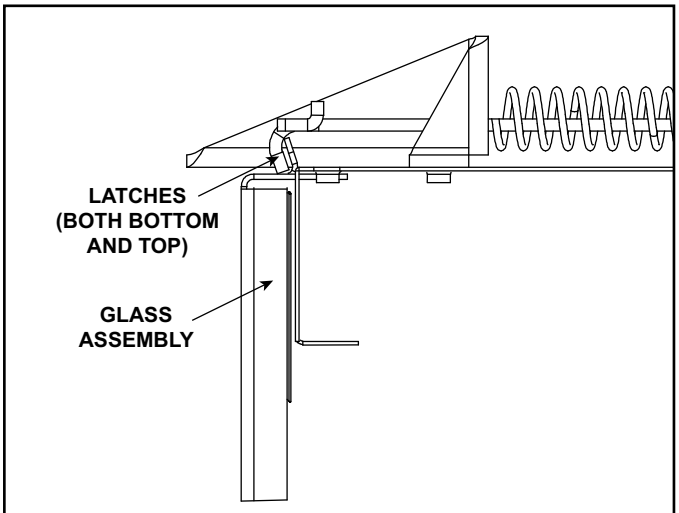


Figure 4.1 Fixed Glass Assembly

- Carefully set fixed glass assembly in place on fireplace. Hold glass in place with one hand and secure all glass latches with the other hand.
- Inspect and operate all glass latches to ensure they move freely and no obstructions are present.
- Reinstall decorative barrier front.

Surrounds, Decorative Barrier Fronts

Frequency: Annually

By: Homeowner

Tools needed: Protective gloves, stable work surface

- Assess condition of screen and replace as necessary.
- Inspect for scratches, dents or other damage and repair as necessary.
- Check that air intake and discharge areas are not blocked.
- Vacuum and dust surfaces.

Remote Control

Frequency: Seasonally

By: Homeowner

Tools needed: Replacement batteries and remote control instructions.

- Locate remote control transmitter and receiver.
- Verify operation of remote. Refer to remote control operation instructions for proper calibration and setup procedure.
- Replace batteries as needed in remote transmitters and battery-powered receivers.
- Place remote control out of reach of children.

If not using your fireplace for an extended period of time (summer months, vacations/trips, etc), to prevent unintended operation:

- Remove batteries from remote controls.
- Unplug 6 volt adapter plug on IPI models.

Venting and Termination Cap

Frequency: Seasonally

By: Homeowner

Tools needed: Protective gloves and safety glasses.

- Inspect exposed venting and termination cap for blockage or obstruction such as plants, bird nests, leaves, snow, debris, etc.
- Verify termination cap clearance to subsequent construction (building additions, decks, fences, or sheds).
- Inspect for corrosion or separation.
- Verify caulking and sealing of vent components and termination cap remains intact.
- Inspect draft shield to verify it is not damaged or missing.

C. Maintenance Tasks - Qualified Service Technician

The following tasks must be performed by a qualified service technician.

Gasket Seal and Glass Assembly Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, drop cloth and a stable work surface.

- Inspect gasket seal and its condition.
- Inspect fixed glass assembly for scratches and nicks that can lead to breakage when exposed to heat.
- Confirm there is no damage to glass or glass frame. Replace as necessary.
- Verify that fixed glass assembly is properly retained and attachment components are intact and not damaged. Replace as necessary.

Log Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves.

- Inspect for damaged or missing logs. Replace as necessary. Refer to Installation manual for log placement instructions.
- Verify correct log placement and no flame impingement causing sooting. Correct as necessary.

Firebox Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, sandpaper, steel wool, cloths, mineral spirits, primer and touch-up paint.

- Inspect for paint condition, warped surfaces, corrosion or perforation. Sand and repaint as necessary.
- Replace fireplace if firebox has been perforated.

Control Compartment and Firebox Top

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, vacuum cleaner, dust cloths

- Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
- Remove all foreign objects.
- Verify unobstructed air circulation.

Pilot and Burner Ignition and Operation

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, vacuum cleaner, whisk broom, flashlight, voltmeter, indexed drill bit set, and a manometer.

- Inspect orifice for soot, dirt and corrosion. Verify orifice size is correct. See Service Parts List for proper orifice sizing.
- Verify air shutter setting is correct. See Installation Manual for required air shutter setting. Verify air shutter is clear of dust and debris.
- Verify burner is properly secured and aligned with pilot or igniter.
- Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
- Inspect thermocouple/thermopile or IPI flame sensing rod for soot, corrosion and deterioration. Polish with 320 grit Emery cloth and/or 3M™ Scotch-Brite Abrasive Hand Pad.
- Verify that there is not a short in flame sense circuit by checking continuity between pilot hood and flame sensing rod. Replace pilot as necessary.
- Verify manifold and inlet pressures. Adjust regulator as required.
- Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.
- Inspect pilot flame pattern and strength. See Figure 4.2 for proper pilot flame pattern. Clean or replace orifice spud as necessary.
- Replace Glowing embers with new dime-size pieces. **DO NOT** block ports or obstruct lighting paths. Refer to appliance installation manual for proper ember placement.
- Check for smooth lighting and ignition carryover to all ports. Verify that there is no ignition delay. Inspect and ensure the lighting of the main burner occurs within four seconds of the main gas valve opening.
- Inspect for lifting or other flame problems.
- Verify batteries have been removed from battery back-up IPI systems to prevent premature battery failure or leaking.

Figure 4.2 IPI Pilot Flame Patterns

Electrical Service and Repair

WARNING! Risk of Shock! *Label all wires prior to disconnection when servicing controls. Wiring errors could cause improper and dangerous operation. Verify proper operation after servicing.*

WARNING! Risk of Shock! *Replace damaged wire with type 105º C rated wire. Wire must have high temperature insulation.*

5 Frequently Asked Questions and Troubleshooting

A. Frequently Asked Questions - Appliance

ISSUE	SOLUTIONS
Condensation on the glass	This is a result of gas combustion and temperature variations. Prior to appliance being turned on, the inside of the glass has cooled below the dew point producing a byproduct of combustion: water in the form of condensation. As the fireplace glass warms, the condensation will disappear. In the summer, the inside of your fireplace contains hot humid air from outdoors. When the air from outdoors contacts glass cooled below the dew point by your air conditioning, moisture in that air will condense.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the fireplace is allowed to burn for 20 to 40 minutes.
Erratic flames	Verify that the glass assembly is correctly installed and that all glass latches are engaged over the tabs on the glass frame. Vent baffle/flue restrictor may be needed when long vertical vent runs are used. Refer to Installation Manual, Section 4 Vent Diagrams.
Odor from fireplace	When first operated, this fireplace may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing. Odor may also be released from finishing materials and adhesives used around the fireplace. These circumstances may require additional curing related to the installation environment.
Film on the glass	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3 to 4 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as gas fireplace glass cleaner may be necessary. Contact your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the fireplace.
Is it normal to see the pilot flame burn continually?	In an intermittent pilot ignition system (IPI), the pilot flame should turn off when appliance is turned off. Some optional control systems available with IPI models may allow pilot flame to remain lit.
Optional Contemporary Kit (QUARTZ32IFT/QUARTZ36IFT only)	It is expected that some smaller pieces of rock may fall through small gaps around the burner/base pan and may result in a minor noise. This has no affect on fireplace performance and should lessen over time as the glass media becomes conditioned to the heating and cooling temperature changes.
Optional Glass Liner Kit	It is normal for a white haze to accumulate on the reflective glass panels. Depending upon frequency of use, it is recommended that the glass panels are cleaned annually with a non-abrasive commercially available cleaner.
Power Outages (battery backup)	This appliance can be operated on battery power in the event of a power outage. To access the battery pack, the decorative barrier front, mesh and glass assembly must be removed. Refer to Section 3 for more details.
Wall above appliance feels hot to the touch.	No action necessary. This appliance ships with a non-combustible material attached. Specifications of the attached non-combustible material are listed in the Installer's Manual for this appliance.

Contact your dealer for additional information regarding operation and troubleshooting. Visit www.majesticproducts.com to locate a dealer.

B. Frequently Asked Questions - IntelliFire Touch Controls (Optional IFT-RC400)

Symptom	Possible Cause	Corrective Action
The appliance does not respond to commands from the remote control display does not light up when screen is touched.	Batteries are depleted.	Verify batteries are new.
	Batteries are incorrectly oriented.	Verify batteries are installed in correct orientation as shown on batteries receptacle.
The display on remote lights up when screen is touched but it does not respond to commands.	Touchscreen has lost calibration.	Touchscreen needs to be re-calibrated. Call dealer to have screen re-calibrated.
	Child Lock is ON.	Check child lock icon located at the top of the remote display. If ON, it will show as a 'locked' symbol. To unlock, remove battery compartment door, locate child lock switch and move to 'unlock' position. Verify child lock icon on screen is now displayed in 'unlock' position.
The remote displays the following message on-screen: No dealer info available	Dealer information not programmed into remote.	Remote will still provide all available functions, and appliance is fully available for use. Call dealer to have them program.
The remote displays the following message on-screen: Call "Dealer Name & Number" to schedule maintenance.	300 hours of use. Appliance is still fully functional.	The appliance has been burning for 300 hours and is due for a regular maintenance. Call dealer to have them perform maintenance.
The room temperature displayed on the remote is either slow or quick to respond while operating in thermostat mode.	Remote is placed at a very short distance or too far away from the appliance.	Try to keep the remote close to the appliance but not directly in front of it. The remote acts as the thermostat.
	Remote is placed in the path of an air draft or vent.	Move the remote away from the direct path of air flow. The remote acts as the thermostat.
	Flame Modulation	The control system is designed to automatically adjust the flame intensity based on the difference between the desired room temperature, and actual temperature. In thermostat mode, the hearth appliance will start in HI flame, but as the actual temperature approaches the desired set temperature on the remote, the flame intensity will automatically decrease. Automatic flame modulation will result in more control of the temperature, and will cause the appliance to cycle OFF/ON less.
The appliance turns OFF the flame after extended periods of operation	9 hour safety shutdown timer	This is normal behavior. The appliance has a safety timer that will automatically turn OFF the flame after nine hours of uninterrupted operation.
The remote displays the following message on-screen: Fan will turn on within 3 minutes	Functioning as intended.	The appliance has a three minute delay timer before the fan is turned ON. This allows the air surrounding the appliance to be heated before being pushed into the room.
The remote displays the following message on-screen: "Replace remote batteries."	Low batteries in remote.	Install new batteries in the remote.
The remote is displaying an incorrect brand.	Remote was programmed incorrectly.	Call dealer to have them program the remote with correct branding. Remote is still fully functional and the appliance is unaffected.
After turning flame ON using remote, the flame does not turn ON immediately and instead a two minute timer is displayed.	Power vent is installed on the appliance.	This is expected behavior and the two minute timer is called a pre-purge timer. The flame will turn ON at the expiration of the timer.
The remote displays the following message on-screen: "Remote Control Communication Error."	No power to appliance.	Verify home circuit breaker is on and master reset is on (if equipped).
	Power outage.	Install new batteries in battery backup.
The remote displays the following message on -screen: Sorry your appliance did not start. Try again by pressing Flame On.	No power to appliance. No gas to appliance. Accumulation of air in gas line from extended period of appliance inactivity. Gas control system failure.	Verify that appliance has power and gas. Verify that the appliance accepts flame ON commands with an audible beep, and successfully turns flame on within 90 seconds. If this failure persists, contact dealer for service.

C. Troubleshooting

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service technician in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician. Contact your dealer to arrange a service call by a qualified service technician.

IntelliFire Touch

Error Codes:

ECM LED Error Codes	Description
3 Red: 1 Green	IFT-RC400 error message: 'Appliance Safely Disabled', pilot sparks for 90 sec, no flame rectification.
2 Red: 1 Green	IFT-RC400 display: 'Error Pilot Flame', pilot valve solenoid not detected.
2 Red: 2 Green	Sparking feedback signal error, spark coil failure.
5 Red: 1 Green	IFT-RC400 display: 'Error Power Vent' (if installed).

See Troubleshooting matrix for more detail on Lock-out Error Codes, Possible Causes and Corrective Actions.

Troubleshooting:

Symptom	Possible Cause	Corrective Action
Pilot won't light, module clicks but no spark 90 sec, 3 Red/1 Green Lock out.	Incorrect wiring.	Verify 'S' (White) sense wire and 'I' (orange) ignitor wire are connected to correct terminals on IFT-ECM.
	Loose connections or electrical shorts in wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Verify wire insulation is not damaged. Verify wires are not grounding out to chassis, pilot burner, or any other metal object. Replace any damaged wires.
	Ignitor gap is too large.	Verify spark gap is approximately 0.095" (2.41 mm) to 0.135" (3.43 mm).
Pilot won't light, there is no noise or spark.	No AC power, AC/DC adaptor faulty, backup batteries (if being used) depleted, IFT-ECM slider switch in OFF position.	Verify IFT-ECM slider switch is in ON or REM position. Verify AC power available to junction box. Verify AC/DC adaptor is plugged into junction box and ECM. Verify AC/DC adaptor output voltage is between 5.7-6.3 Vdc. If battery pack is used, check battery pack voltage is >4.2 V (if not, replace batteries).
	Shorted or loose connection in system wiring or wiring harness.	Verify system wiring configuration. Remove and reinstall wiring harness that plugs into module. Check continuity of wires in valve wiring harness. Replace any damaged components.
	Poor or no system ground.	Verify black ground wire in valve harness is connected to metal chassis of fireplace.
Pilot won't light, there is no noise or spark, 2 Red/1 Green Lockout.	Pilot solenoid not detected.	Check if valve harness orange wire is connected to pilot solenoid valve. Check pilot solenoid resistance, nominal is 40 ohms. If open or shorted, replace valve. Check valve harness wire continuity, if open replace 6-pin harness.
Pilot won't light, there is no noise or spark, 2 Red/2 Green Lockout.	Spark coil failure.	Replace ECM.

IntelliFire Touch - (continued)

Symptom	Possible Cause	Corrective Action
Pilot sparks but does not light, after 90 sec, 3 Red/1 Green Lockout	No gas supply.	Verify incoming gas line ball valve is 'Open'. Verify inlet pressure is within requirement for gas type used. Contact gas supplier.
	ECM has poor ground.	Verify wiring, check valve harness black wire is securely grounded to metal chassis.
	Gas valve defective.	Check pilot valve solenoid kick and hold voltages during ignition cycle. Kick V should be >1 V, hold V minimum 0.26 V. If voltages are OK, replace gas valve.
Pilot lights but main burner does not light. Pilot continues to spark for 90 sec then goes into 3 Red/1 Green Lockout.	No flame detected. Flame rectification issue.	Check if white sense lead is securely connected to 'S' terminal of IFT-ECM. Check resistance of sense lead between sense rod tip and connector to IFT-ECM, should be less than 1 ohm - if not, replace pilot assembly. Check system ground, ensure black valve harness wire is securely attached to metal chassis. Check wiring for damage. With system OFF, check resistance between tip of sense rod and pilot hood, should be resistance (>1 M-ohm).
	No flame detected or sense rod contamination.	With glass assembly installed, verify pilot flame is engulfing flame sense rod on pilot assembly. Verify inlet gas pressure is correct for gas type. Polish flame sense rod with fine steel wool to remove any contaminants that may have accumulated.
Pilot lights and rectifies, but main burner does not light.	Main valve solenoid.	Check if green wire in valve harness is connected to green main valve solenoid. Check main valve solenoid resistance, nominal is 60 ohms. If open or shorted, replace valve. Verify valve inlet pressure is correct for gas type.
Pilot and main do not light, ECM goes into 5 Red/1 Green Lockout.	Power Vent (PV) Failure.	Power Vent blower defective - check wiring to IFT-ACM, check if blower is working. Check if PV pressure switch is connected to brown and black wire in 6-pin valve wire harness. Check if pressure switch is closed (shorted) when PV blower is running. Refer to PV troubleshooting instructions.
Appliance lights and runs for a few minutes then shuts down and/or appliance cycle ON and OFF with less than 90 sec of ON time.	Shorted or loose connection in flame detection circuit.	Check if white sense lead is securely connected to 'S' terminal of IFT-ECM. Check resistance of sense lead between sense rod tip and connector to IFT-ECM, should be less than 1 ohm - if not, replace pilot assembly. Check system ground, ensure black valve harness wire is securely attached to metal chassis. Check wiring for damage. With system OFF, check resistance between tip of sense rod and pilot hood, should be resistance (>1 M-ohm).
	Poor flame rectification or contaminated sense rod.	With glass assembly installed, verify pilot flame is engulfing flame sense rod on pilot assembly. Verify inlet gas pressure is correct for gas type. Polish flame sense rod with fine steel wool to remove any contaminants that may have accumulated. Verify no soot deposits are in sense rod to pilot hood gap.
	Logs are set up wrong.	Remove and re-install logs per the log placement instructions.
	Damaged pilot assembly.	Verify the pilot assembly ceramic insulator around the flame sensing rod is not cracked, damaged or loose. Check resistance between tip of sense rod and IFT-ECM connector, should be less than 1 ohm. Replace pilot assembly if damage is detected.

6 Reference Materials

A. Accessories

Install approved accessories per instructions included with accessories. Contact your dealer for a list of approved accessories.

WARNING! Risk of Fire and Electric Shock! *Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.*

Remote Controls, Wall Controls and Wall Switches

After a qualified service technician has installed the remote control, wall control or wall switch, follow the instructions supplied with the control installed to operate your appliance:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

Contact your dealer if you have questions.

Optional IntelliFire Wi-Fi module with IntelliFire App

After a qualified service technician has installed the IntelliFire Wi-Fi module with the IntelliFire app, follow the instructions supplied to operate your appliance. Contact your dealer if you have questions.

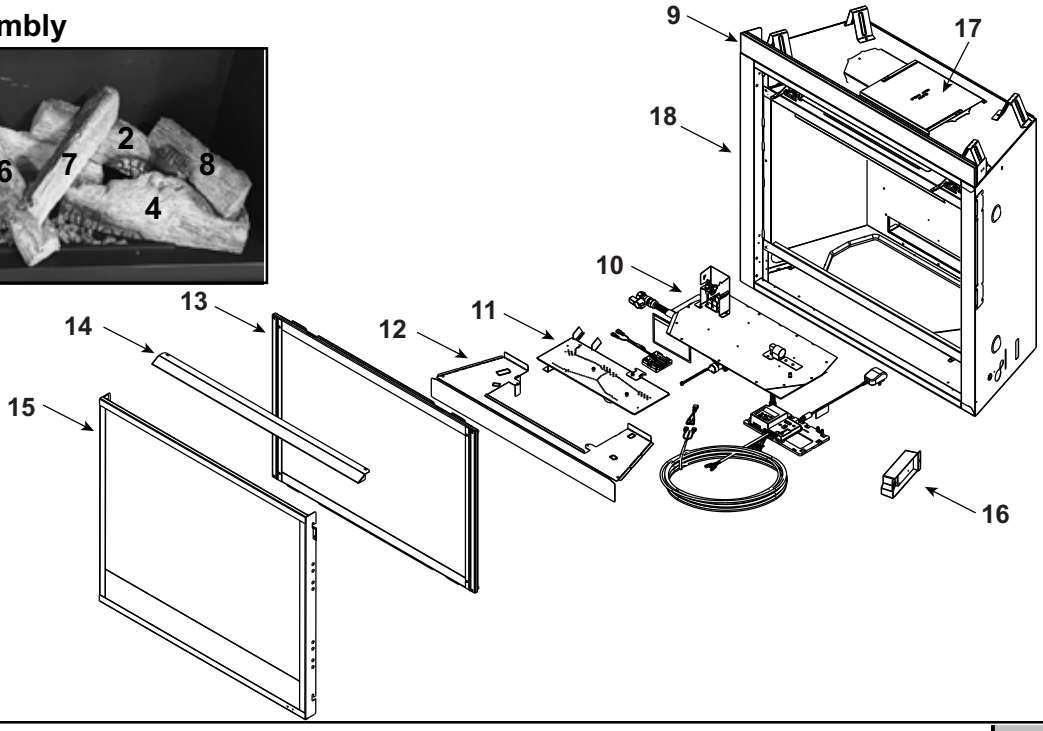
B. Service Parts

Service Parts QUARTZ32IFTN/QUARTZ32IFTL

Quartz 32” Gas Fireplace - DV

Beginning Manufacturing Date: March 2020
Ending Manufacturing Date: Active

Log Set Assembly



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Set Assembly		LOGS-QUARTZ32	**Y**
1	Rear Left Base Log		SRV2413-701	
2	Rear Right Base Log		SRV2412-702	
3	Front Left Base Log		SRV2413-703	
4	Front Right Base Log		SRV2412-704	
5	Top Left Log		SRV2413-705	
6	Middle Left Cross Log		SRV2413-706	
7	Middle Right Cross Log		SRV2413-707	
8	Top Right Log		SRV2413-708	
9	Drywall Support		2391-119	
10	Valve Assembly		**See following page**	
11	Burner Assembly		2412-007	**Y**
12	Base Pan		2412-111	
13	Glass Door Assembly		GLA-550TR	**Y**
14	Hood		2115-230	
15	Door		SRV2401-021	
16	Junction box	Pre LC6531528	SRV4021-013	**Y**
		Post LC6531528	SRV2326-013	**Y**
17	Elbow Heat Shield		385-290	
18	Overlay Kit		SRV550-FACE	

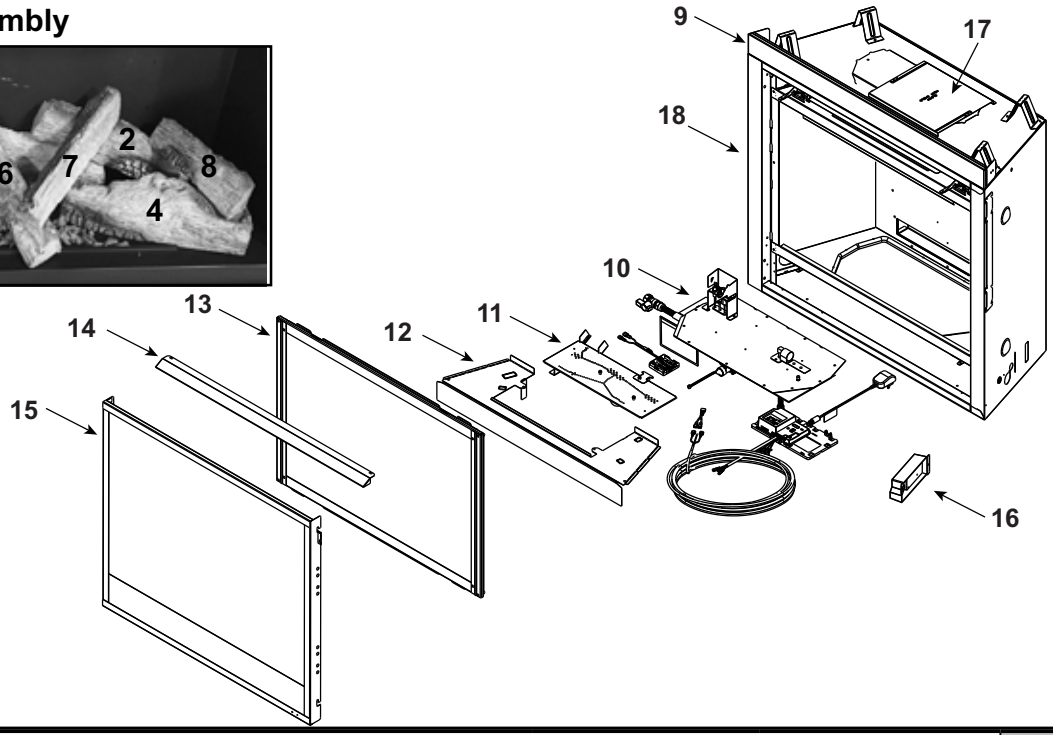
Additional service part numbers appear on following page.

Service Parts QUARTZ36IFTN/QUARTZ36IFTL

Quartz 36” Gas Fireplace - DV

Beginning Manufacturing Date: March 2020
Ending Manufacturing Date: Active

Log Set Assembly



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Set Assembly		LOGS-QUARTZ36	**Y**
1	Rear Left Base Log		SRV2413-701	
2	Rear Right Base Log		SRV2413-702	
3	Front Left Base Log		SRV2413-703	
4	Front Right Base Log		SRV2413-704	
5	Top Left Log		SRV2413-705	
6	Middle Left Cross Log		SRV2413-706	
7	Middle Right Cross Log		SRV2413-707	
8	Top Right Log		SRV2413-708	
9	Drywall Support		2392-119	
10	Valve Assembly		**See following page**	
11	Burner Assembly		2413-007	**Y**
12	Base Pan		2413-111	
13	Glass Door Assembly		GLA-750TR	**Y**
14	Hood		2118-230	
15	Door		DBM36BK	
16	Junction box	Pre LC6531528	SRV4021-013	**Y**
		Post LC6531528	SRV2326-013	**Y**
17	Elbow Heat Shield		385-290	
18	Overlay Kit		SRV750-FACE	

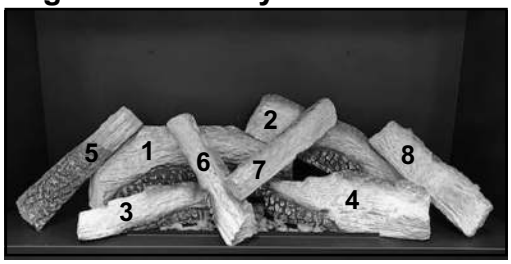
Additional service part numbers appear on following page.

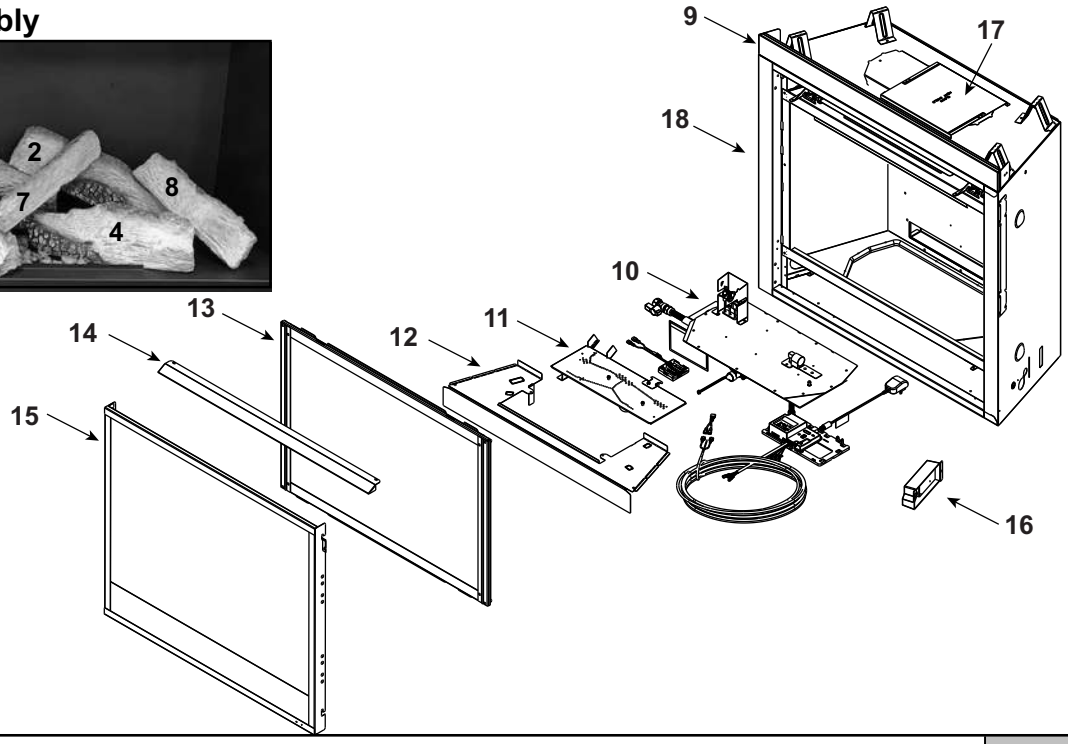
Service Parts QUARTZ42IFTN/QUARTZ42IFTL

Quartz 42” Gas Fireplace - DV

Beginning Manufacturing Date: March 2020
Ending Manufacturing Date: Active

Log Set Assembly



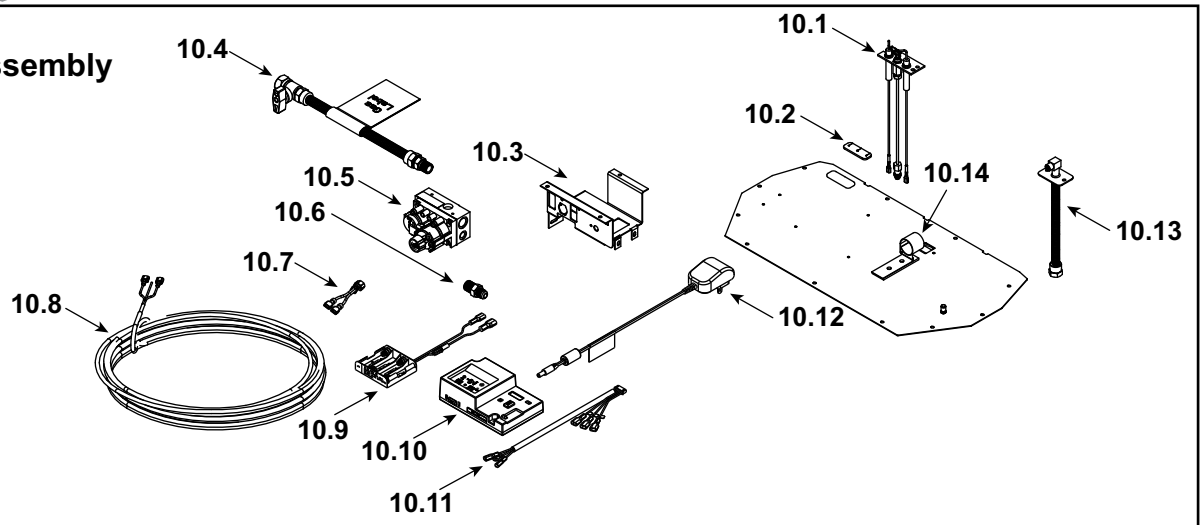


IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Log Set Assembly		LOGS-QUARTZ42	**Y**
1	Rear Left Base Log		SRV2414-709	
2	Rear Right Base Log		SRV2414-710	
3	Front Left Base Log		SRV2413-703	
4	Front Right Base Log		SRV2414-711	
5	Top Left Log		SRV2413-705	
6	Middle Left Cross Log		SRV2413-706	
7	Middle Right Cross Log		SRV2413-707	
8	Top Right Log		SRV2414-712	
9	Drywall Support		2393-119	
10	Valve Assembly		**See following page**	
11	Burner Assembly		2414-007	**Y**
12	Base Pan		2414-111	
13	Glass Door Assembly		GLA-950TR	**Y**
14	Hood		2121-230	
15	Door		DBM42BK	
16	Junction box	Pre LC6531528	SRV4021-013	**Y**
		Post LC6531528	SRV2326-013	**Y**
17	Elbow Heat Shield		385-290	
18	Overlay Kit		SRV950-FACE	

Additional service part numbers appear on following page.

#10 Valve Assembly



IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
10.1	Pilot Assembly NG		SRV2106-169	Y
	Pilot Assembly Propane		SRV2106-170	Y
	Pilot Tube		SRV485-301	Y
10.2	3-Hole Grommet		SRV2118-420	
10.3	Valve Bracket		2118-104	
10.4	Flex Ball Valve Assembly		SRV302-320	Y
10.5	Valve NG		SRV2166-302	Y
	Valve Propane		2166-303	Y
10.6	Male Connector	Pkg of 5	303-315/5	
10.7	Jumper Wire		SRV2187-198	Y
10.8	Thermostat Wire Assembly		SRV2118-170	Y
10.9	Battery Pack**		SRV2326-134	Y
10.10	Module, IFT Control		SRV2326-130	Y
10.11	Wire Harness, IFT 6 Pin		SRV2326-132	Y
10.12	6 Volt Transformer		SRV2326-131	Y
10.13	Bulkhead w/Flex Tube		SRV7000-156	Y
10.14	Shutter Bracket Assembly		2118-121	
	Orifice NG (#44C)	QUARTZ32IFT	582-844	Y
	Orifice Propane (#55C)		582-855	Y
	Orifice NG (#42C)	QUARTZ36IFT	582-842	Y
	Orifice Propane (#54C)		SRV582-854	Y
	Orifice NG (#39C)	QUARTZ42IFT	582-839	Y
	Orifice Propane (#53C)		582-853	Y

**Fuse for battery pack can be sourced locally, not a warranty item. Specs are 250v, 3A fuse, 3/4" long

Additional service part numbers appear on following page.

QUARTZIFT

Beginning Manufacturing Date: March 2020
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers**. Provide model number and serial number when requesting service parts from your dealer or distributor.

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	Stocked at Depot
	Exhaust Restrictor		530-299	
	Gasket Assembly Contains Burner neck, shutter bracket, vent, seal cap, valve plate, and air passage gaskets		2118-080	
	Lava Rock	3 lbs	4021-297	
	Mineral Wool		050-721	
	Touch Up Paint		TUP-GBK-12	
	Shoulder Bolt	Pkg of 25	319-835-25	
CONVERSION KITS				
	Conversion Kit NG		NGKQUARTZ-IFT	
	Conversion Kit Propane		LPKQUARTZ-IFT	
	Pilot Orifice NG		SRV593-528	**Y**
	Pilot Orifice Propane		SRV593-527	**Y**
	Regulator NG		NGK-DXV-50	**Y**
	Regulator Propane		SRVLPK-DXV-50	**Y**

C. Contact Information

Majestic, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.majesticproducts.com

Please contact your Majestic dealer with any questions or concerns.
For the location of your nearest Majestic dealer,
please visit www.majesticproducts.com.

- NOTES -

_____

_____

_____

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_____

NOTICE

DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.

This product may be covered by one or more of the following patents: (United States) 7077122, 7074035, 7234932, 7322819, 7422011, 7726300, 8147240, 9625149 or other U.S. and foreign patents pending.

2000-945F

Installation Manual

Installation and Appliance Setup

***CAUTION! Risk of Fire! DO NOT** store instruction manuals inside fireplace cavity. High temperatures could cause a fire.*

INSTALLER: Leave this manual with the appliance, not inside the appliance.
CONSUMER: Retain this manual for future reference. Do not store inside the appliance.

***NOTICE: DO NOT** discard this manual!*

QUARTZ SERIES

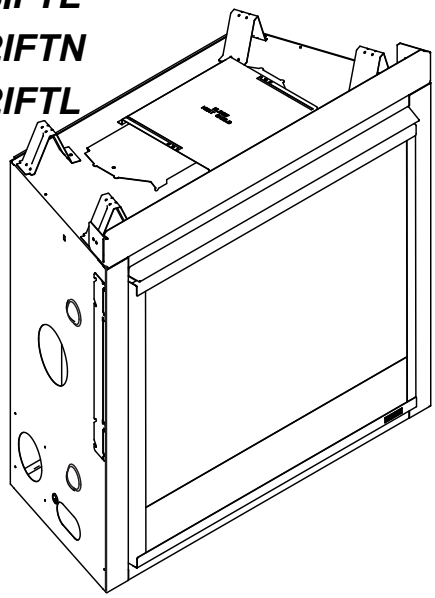
Models:

QUARTZ32IFTN
QUARTZ32IFTL
QUARTZ36IFTN
QUARTZ36IFTL
QUARTZ42IFTN
QUARTZ42IFTL

MAJESTIC

GAS-FIRED

c UL us LISTED



This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* in the United States, or the *Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series,* in Canada.

This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

⚠ WARNING:
FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
  - **DO NOT** try to light any appliance.
  - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
  - Leave the building immediately.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

⚠ DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.

Decorative barrier front provided with this appliance.

Pour demander un exemplaire en français de ce manuel d'installation, visitez www.majesticproducts.com.

⚠ Safety Alert Key:

- ***DANGER!*** *Indicates a hazardous situation which, if not avoided will result in death or serious injury.*
- ***WARNING!*** *Indicates a hazardous situation which, if not avoided could result in death or serious injury.*
- ***CAUTION!*** *Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.*
- ***NOTICE:*** *Used to address practices not related to personal injury.*

Note: *The term "recommend" or "recommended" does not indicate a requirement. It is a best practice suggested by Hearth & Home Technologies®.*

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➔ = Contains updated information.

➔ Installation Standard Work Checklist

ATTENTION INSTALLER:

Follow this Standard Work Checklist

This standard work checklist is to be used by the installer in conjunction with, not instead of, the instructions contained in this installation manual.

Customer: _____ **Date Installed:** _____
Lot/Address: _____ **Location of Fireplace:** _____
_____ **Installer:** _____
Model (circle one): **QUARTZ32IFTN QUARTZ32IFTL** **Dealer/Distributor Phone #** _____
QUARTZ36IFTN QUARTZ36IFTL QUARTZ42IFTN QUARTZ42IFTL **Serial #:** _____

> ***WARNING! Risk of Fire or Explosion!*** *Failure to install appliance according to these instructions could lead to a fire or explosion. Install ONLY components and accessories approved by Hearth & Home Technologies. Unapproved components and accessories could cause fireplace to overheat.*

Appliance Install	**YES**	**IF NO, WHY?**
Verified that the chase is insulated and sealed. (Pg. 13)	☐	_____
Verified clearances to combustibles. (Pg. 11-12)	☐	_____
Fireplace is plum, level, square and secured. (Pg.40)	☐	_____
Venting/Chimney Section 7 (Pg 41-46)		
Venting configuration complies to vent diagrams.	☐	_____
Venting installed, locked and secured in place with proper clearance. (Need to order separately.)	☐	_____
Firestops installed.	☐	_____
Attic insulation shield installed.	☐	_____
Exterior wall/Roof flashing installed and sealed.	☐	_____
Terminations installed and sealed.	☐	_____
Electrical Section 8 (Pg 47-50)		
Unswitched power (110-120 VAC) provided to the appliance.	☐	_____
Switch wires properly installed.	☐	_____
Gas Section 9 (Pg 51-53)		
Proper appliance for fuel type.	☐	_____
Was a conversion performed?	☐	_____
Leak check performed and inlet pressure verified.	☐	_____
Verified proper air shutter setting for installation type.	☐	_____
Finishing Section 10 (Pg 54-56)		
Combustible materials not installed in non-combustible areas.	☐	_____
Verified all clearances meet installation manual requirements.	☐	_____
Mantels and wall projections comply with installation manual requirements.	☐	_____
Appliance Setup Section 11 (Pg 57-65)		
All packaging and protective materials removed (inside & outside of appliance).	☐	_____
Refractories, logs, media and embers installed correctly.	☐	_____
Glass assembly installed and secured.	☐	_____
Accessories installed properly.	☐	_____
Decorative barrier front properly installed.	☐	_____
Manual bag and all of its contents are removed from inside/under the appliance and given to party responsible for use and operation.	☐	_____
Started appliance and verified no gas leaks exist.	☐	_____

Hearth & Home Technologies recommends the following:

- Photographing the installation and copying this checklist for your file.
- That this checklist remain visible at all times on the appliance until the installation is complete.

Comments: Further description of the issues, who is responsible (Installer/ Builder/ Other Trades, etc) and corrective action needed _____

_____

_____

Comments Communicated to party responsible _____ by _____ on _____
(Builder / Gen. Contractor/) (Installer) (Date)

➔ = Contains updated information.

2641-982B 2/25

1 Product Specific and Important Safety Information

A. Appliance Certification

MODELS: **QUARTZ32IFTN, QUARTZ32IFTL,**
QUARTZ36IFTN, QUARTZ36IFTL
QUARTZ42IFTN, QUARTZ42IFTL

LABORATORY: **Underwriters Laboratories, Inc. (UL)**

TYPE: **Direct Vent Heater**

STANDARD: **CSA / ANSI Z21.88:19 • CSA 2.33:19**

This product is listed to ANSI standards for "Vented Gas Fireplace Heaters" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles", and "Gas Fired Appliances for Use at High Altitudes". Also Certified for Installation in a Bedroom or a Bedsitting Room.

NOTICE: *This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.*

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE. This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

B. Glass Specifications

Hearth & Home Technologies appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the Consumer Product Safety Commission (CPSC). The tempered glass has been tested and certified to the requirements of **ANSI Z97.1** and **CPSC 16 CFR 1202** (Safety Glazing Certification Council **SGCC# 1595** and **1597**. Architectural Testing, Inc. Reports **02-31919.01** and **02-31917.01**).

This statement is in compliance with **CPSC 16 CFR Section 1201.5** "Certification and labeling requirements" which refers to **15** U.S. Code **(USC) 2063** stating "…Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

C. BTU Specifications

Models *(U.S. or Canada)*		**Maximum Input BTU/h**	**Minimum Input BTU/h**	**Orifice Size (DMS)**
QUARTZ32IFTN (NG)	*(0-2000 FT)*	21,000	11,250	#44
QUARTZ32IFTL (PROPANE)	*(0-2000 FT)*	18,500	10,000	#55
QUARTZ36IFTN (NG)	*(0-2000 FT)*	24,000	13,000	#42
QUARTZ36IFTL (PROPANE)	*(0-2000 FT)*	20,500	11,500	#54
QUARTZ42IFTN (NG)	*(0-2000 FT)*	28,500	14,500	#39
QUARTZ42IFTL (PROPANE)	*(0-2000 FT)*	26,000	13,500	#53

D. High Altitude Installations

NOTICE: *If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.*

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

Check with your local gas utility to determine proper orifice size.

E. Non-Combustible Materials Specification

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 ºC** shall be considered non-combustible materials.

F. Combustible Materials Specification

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

G. Electrical Codes

NOTICE: *This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with* **National Electric Code ANSI/NFPA 70-latest edition** *or the* **Canadian Electric Code CSA C22.1.**

- A 110-120 VAC circuit for this product must be protected with ground-fault circuit interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.

H. California

WARNING: This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: www.P65Warnings.ca.gov.

Note: The following requirements reference various Massachusetts and national codes not contained in this document.

I. Requirements for the Commonwealth of Massachusetts

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) in. in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".**

Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

See Gas Connection section for additional Commonwealth of Massachusetts requirements.

2 Getting Started

A. Design and Installation Considerations

WARNING! Risk of Fire or Explosion! *Read all instructions before starting the installation.*

Majestic direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional outside air source is required.

Installation MUST comply with local, regional, state and national codes and regulations. Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping requirements.
- Provisions for optional heat management system.
- Electrical wiring requirements.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.

hearthED FACTORY TRAINING Fuel Your Fire

NFI NATIONAL FIREPLACE INSTITUTE A CERTIFICATION AGENCY

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

B. Good Faith Wall Surface

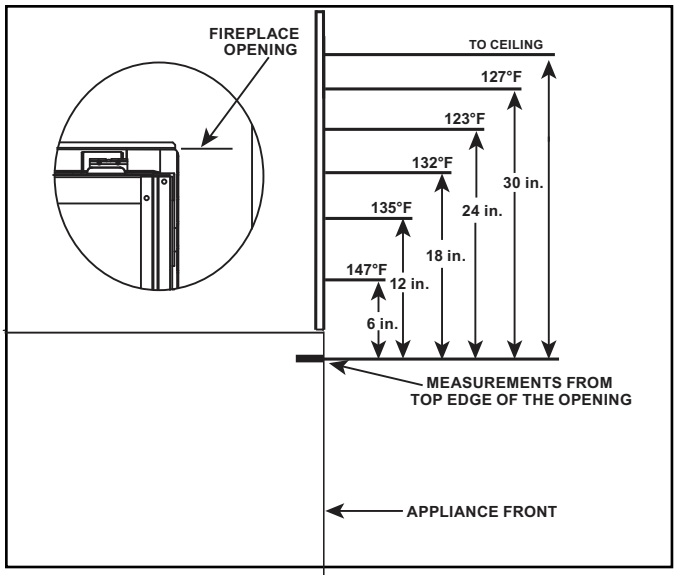


Figure 2.1 Good Faith Wall Surface Temperatures Above Appliance

NOTICE: *Surface temperatures listed above are taken with a temperature measuring probe as prescribed by the test standard used for appliance certification. Temperatures on walls or mantels taken with an infrared thermometer may yield increased temperatures of up to 30 °F (17 °C) or more depending on the thermometer settings and material characteristics being measured. Use appropriate finishing materials that are able to withstand these conditions. For additional finishing guidelines, see Section 10.*

C. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Hand Tools	Tape measure
Level	Framing material
Manometer	Framing square
Voltmeter	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses/Gloves
Wrenches	Reciprocating saw

1/4 in. nut driver

Non-corrosive leak check solution

1/2 - 3/4 in. length, #6 or #8 Self-drilling screws

Caulking material (300 ºF minimum continuous exposure rating)

D. Inspect Appliance and Components

WARNING! Risk of Fire or Explosion! *Damaged parts could impair safe operation.* ***DO NOT i****nstall damaged, incomplete or substitute components. Keep appliance dry.*

WARNING! Risk of Fire, Explosion or Electric Shock! ***DO NOT*** *use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.*

- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative barrier fronts may be shipped in separate packages.
- If packaged separately, the log set and appliance grate must be installed.
- Report to your dealer any parts damaged in shipment.

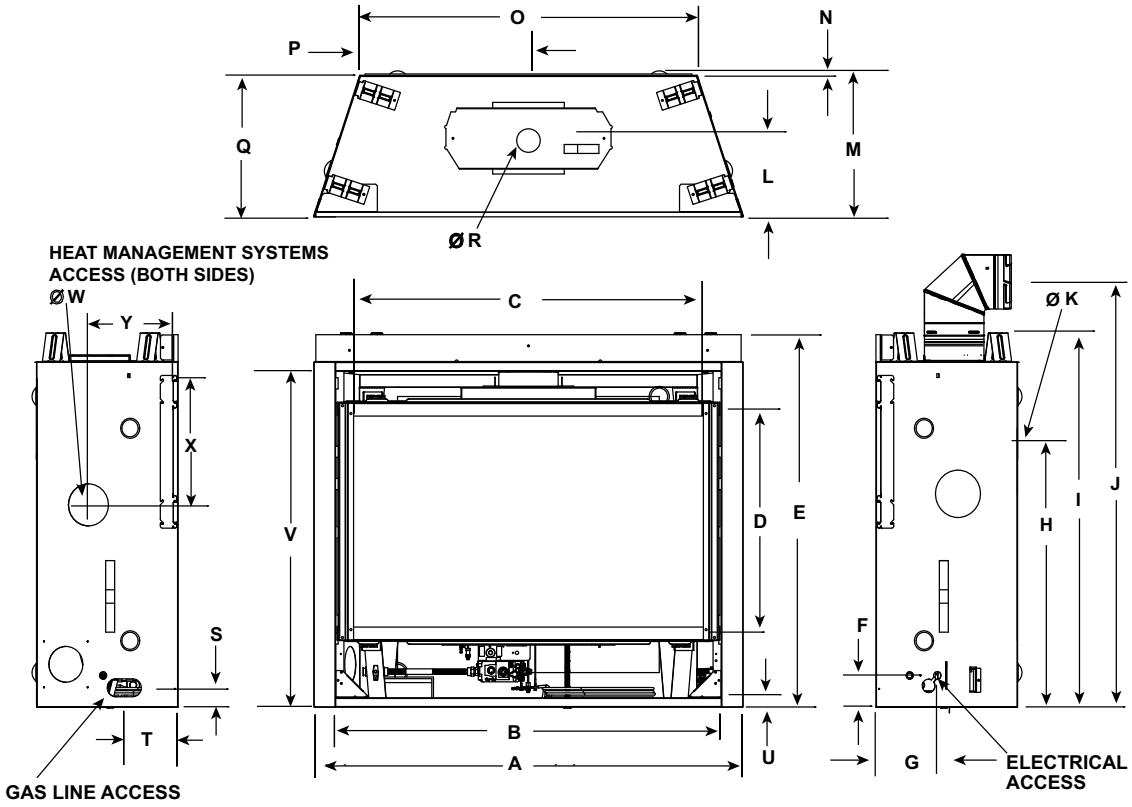
Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the logs/media (as applicable) or the glass assembly.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

3 Framing and Clearances

A. Appliance/Decorative Barrier Front Dimension Diagrams

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 5.



Appliance Dimensions Table

	QUARTZ32IFT		QUARTZ36IFT		QUARTZ42IFT	
Location	**Inches**	**Millimeters**	**Inches**	**Millimeters**	**Inches**	**Millimeters**
A	36	914	41	1041	48	1219
B	31-1/8	791	36-1/8	918	43	1092
C	27-3/16	691	32-1/16	814	39-1/16	992
D	18-1/16	459	21-1/2	546	23-9/16	599
E	34-1/16	865	37-5/8	956	39-9/16	1005
F	3-9/16	90	3-9/16	90	3-9/16	90
G	6-7/8	175	6-7/8	175	6-7/8	175
H	23-3/8	594	26-7/8	683	28-7/8	733
I	34-3/8	873	37-7/8	962	39-7/8	1013
J	36-7/16	926	39-15/16	1014	41-15/16	1065
K	8	203	8	203	8	203
L	8-13/16	224	8-13/16	224	8-13/16	224
M	16-5/16	414	16-5/16	414	16-5/16	414
N	1/2	13	1/2	13	1/2	13
O	25-3/4	654	30-3/4	781	37-3/4	959
P	12-7/8	327	15-3/8	391	18-7/8	479
Q	15-7/8	403	15-7/8	403	15-7/8	403
R	6-5/8	168	6-5/8	168	6-5/8	168
S	2-3/16	56	2-3/16	56	2-3/16	56
T	6	152	6	152	6	152
U	1	25	1	25	1	25
V	30-1/16	764	33-9/16	853	35-9/16	903
W	5	127	5	127	5	127
X	14	356	14	356	14	356
Y	9-1/8	232	9-1/8	232	9-1/8	232

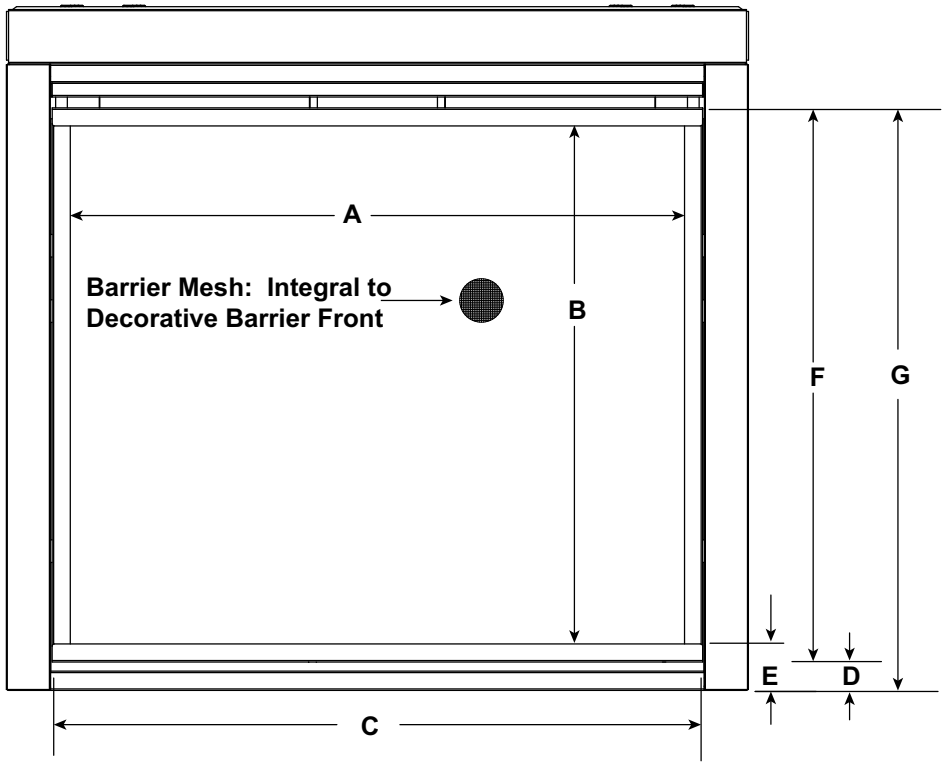
Figure 3.1 Appliance Dimensions

STANDARD DECORATIVE BARRIER FRONT

IMPORTANT! This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. DO NOT operate the fireplace with the barrier removed.

If decorative barrier front is not present, contact dealer.

Note: See Section 10 for hearth, mantel and finishing requirements.



			A	B	C	D	E	F	G
QUARTZ32IFT	SRV2401-021	in.	28-7/8	25-1/8	31	1-5/8	2-5/8	27-1/8	28-3/4
		mm	733	638	787	41	67	689	730
QUARTZ36IFT	DBM36BK	in.	34	28-3/4	35-15/16	1-5/8	2-5/8	30-5/8	32-1/4
		mm	864	730	913	41	67	778	819
QUARTZ42IFT	DBM42BK	in.	40-7/8	30-5/8	43	1-5/8	2-5/8	32-5/8	34-1/4
		mm	1038	778	1092	41	67	829	870

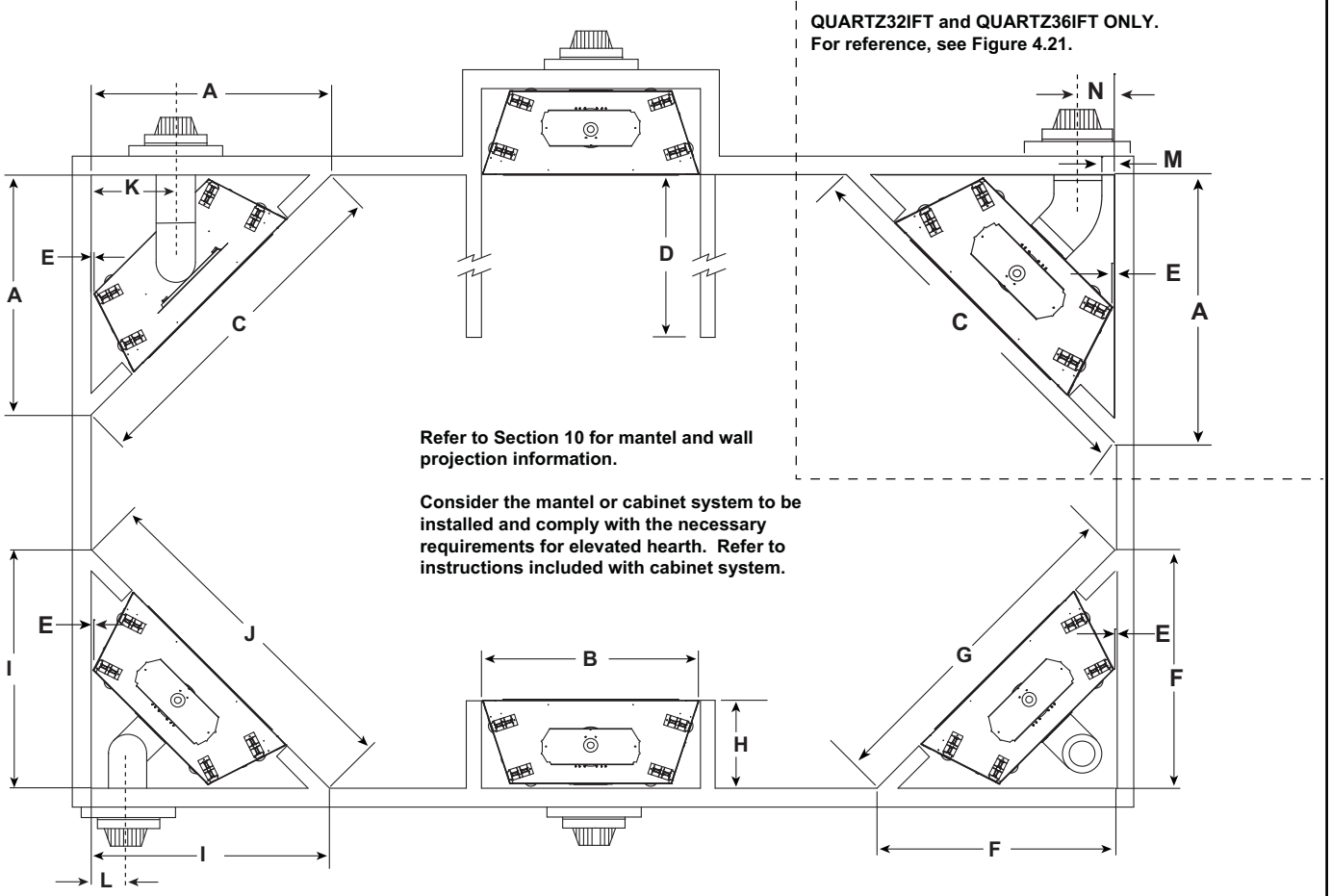
Figure 3.2 Decorative Barrier Front Dimensions - Standard Decorative Barrier Front

B. Appliance Location and Clearances to Combustibles

When selecting a location for the appliance it is important to consider the required clearances to walls and allow sufficient clearance for heat management systems venting. See Figure 3.3 and Figure 3.4.

WARNING! Risk of Fire or Burns! *Provide adequate clearance around air openings and for service access. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.*

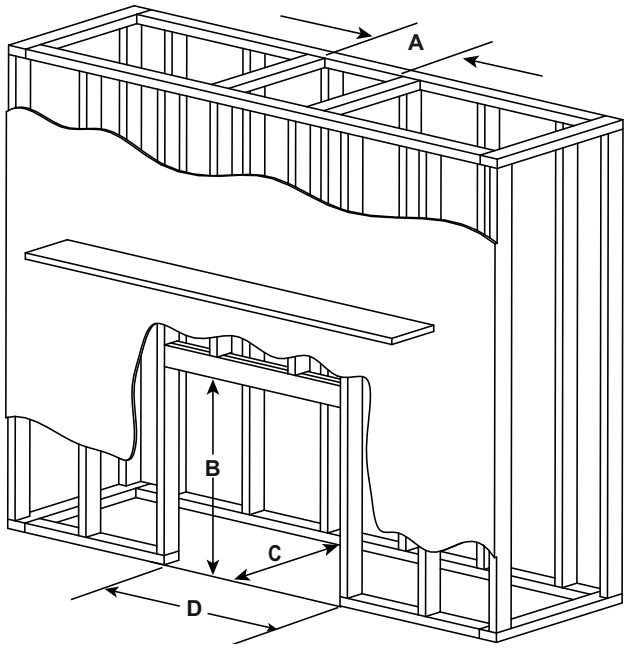
NOTICE: *Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/diagrams are not drawn to scale. Actual installation may vary due to individual design preference.*

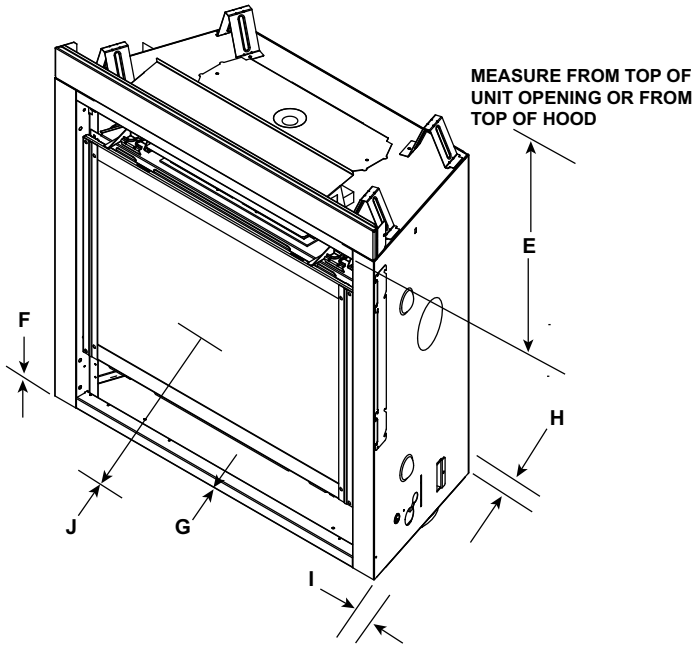


Models		A	B	C	D	E Min.	F	G	H	I	J	K	L	M	N
QUARTZ32IFT	in.	42	37	59-1/2	See Section 10 for Mantel Projections	1/2	44	62-1/4	16-1/4	48-1/2	68-3/4	15-1/16	7-1/2	1	7-1/8
	mm	1067	940	1511		13	1118	1581	413	1232	1746	383	191	25	181
QUARTZ36IFT	in.	45-1/2	42	64-3/8		1/2	45-1/2	64-3/8	16-1/4	48-1/2	68-3/4	16-5/8	7-1/2	1	9
	mm	1156	1067	1635		13	1156	1635	413	1232	1746	422	191	25	229
QUARTZ42IFT	in.	50-1/2	49	71-1/2		1/2	50-1/2	71-1/2	16-1/4	50-1/2	71-1/2	19-1/2	9-1/4	N/A	N/A
	mm	1283	1245	1816		13	1283	1816	413	1283	1816	495	235	N/A	N/A

Note: Heat Management Kits require framing dimension adjustments.

Figure 3.3 Appliance Locations





* MINIMUM FRAMING DIMENSIONS														
Models		A		B	C		D	E	F	G	H	I	J	
		DVP Pipe	SLP Pipe	Rough Opening (Height)	**DVP Pipe	SLP Pipe	Rough Opening (Width)	Clearance to Ceiling	***Combustible Floor	****Minimum Hearth Required	Behind Appliance	Sides of Appliance	Front of Appliance	
		Rough Opening (Width)	Rough Opening (Width)		Rough Opening (Depth)	Rough Opening (Depth)								
QUARTZ32IFTN QUARTZ32IFTL	in.	10	8-5/8	34-3/4	16-1/4	16-1/4	37	32	0	0	1/2	1/2	36	
	mm	254	219	882	413	413	940	813	0	0	13	13	914	
QUARTZ36IFTN QUARTZ36IFTL	in.	10	8-5/8	38-1/4	16-1/4	16-1/4	42	32	0	0	1/2	1/2	36	
	mm	254	219	972	413	413	1067	813	0	0	13	13	914	
QUARTZ42IFTN QUARTZ42IFTL	in.	10	8-5/8	40-1/4	16-1/4	16-1/4	49	32	0	0	1/2	1/2	36	
	mm	254	219	1022	413	413	1245	813	0	0	13	13	914	

* Adjust framing dimensions for interior sheathing (such as sheetrock)
** Add 12 inches when rear venting with one 90º elbow.
*** When using combustible flooring materials, such as carpeting and padding, the combustible flooring material must not extend higher than one inch from the base of the appliance when the appliance is mounted at floor level.
****For installations with vinyl flooring, see Section 3.D.

Figure 3.4 Clearances to Combustibles

C. Constructing the Appliance Chase

NOTICE: *Install appliance on hard metal or wood surfaces extending full width and depth.* ***DO NOT*** *install directly on carpeting, vinyl, or any combustible material other than wood.*

WARNING! Risk of Fire! *Maintain specified air space clearances to appliance and vent pipe:*

- *Insulation and other materials must be secured to prevent accidental contact.*
- *The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.*
- *Failure to maintain airspace may cause overheating and a fire.*

A chase is a vertical box-like structure built to enclose the gas appliance and/or its vent system. In cooler climates the vent should be enclosed inside the chase.

NOTICE: *Treatment of ceiling firestops and wall shield firestops and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, you MUST check local building codes to determine the requirements to these steps.*

NOTICE: Where required by code, install only sprinkler heads with a sprinkler activation temperature classified as Extra High.

- *Sprinklers inside of chase: Keep sprinkler head away from vent and chimney.*
- *Heat Management applications: Maintain 36 inches of clearance to openings from which heat is discharged such as convection slots, passive heat registers, heat zone registers, etc. Refer to Section 6.B for Heat Management options allowed for this appliance.*

Chases should be constructed and insulated in the same manner as the thermal envelope of the home based on the code requirements for that climate zone to prevent air leakage and draft problems. The chase is an extension of the building thermal envelope.

To further prevent drafts and air leakage, the wall shield and ceiling firestops should be sealed with caulk with a minimum of 300 ºF continuous exposure rating to seal gaps. Gas line holes and other openings should be sealed with caulk with a minimum of 300 ºF continuous exposure rating or stuffed with unfaced insulation. If the appliance is being installed on a cement surface, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

Minimum height requirements for an exterior chase on a top-vented appliance are shown in Figure 3.5. Reference Figure 4.5 for additional clearances.

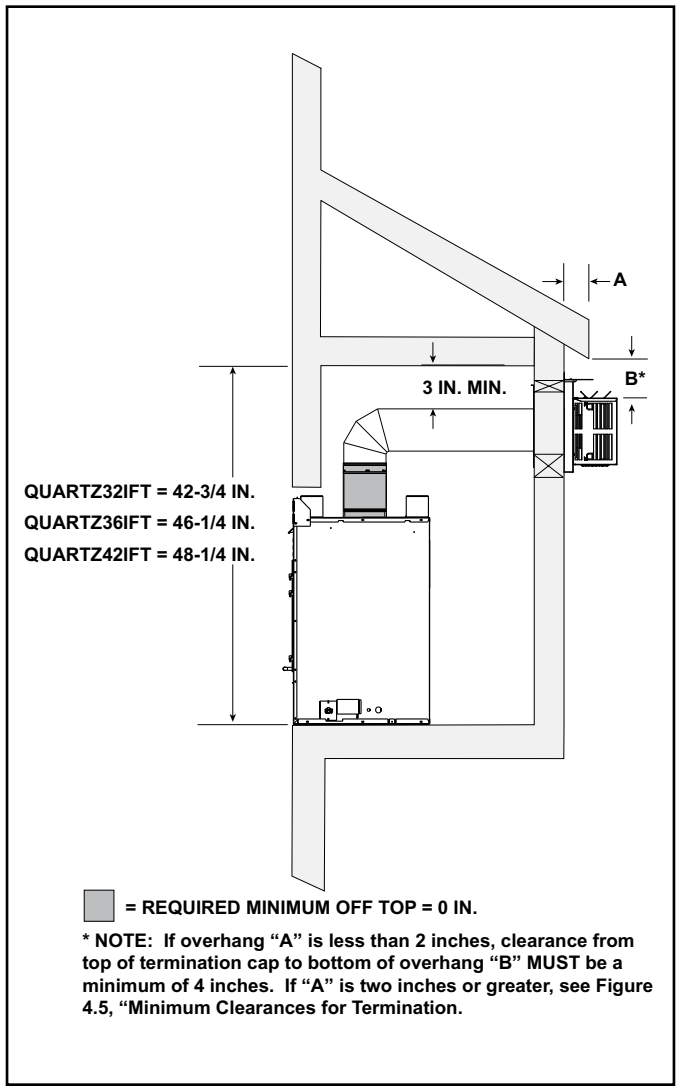


Figure 3.5 Exterior Chase - Minimum Height Requirements

D. Floor Protection

Vinyl Flooring

Vinyl flooring is sensitive to heat. Hearth and Home Technologies does not recommend adhesive based vinyl flooring due to thermal expansion. Floating-style flooring can be used, but will reach temperatures up to 110 °F in a room with ambient temperature of 70 °F. Consult flooring specifications to ensure compatibility.

4 Termination Location and Vent Information

A. Approved Pipe

Approved Pipe - Rigid

WARNING! Risk of Fire or Asphyxiation. *This appliance requires a separate vent.* ***DO NOT*** *vent to a pipe serving a separate solid fuel burning appliance.*

This appliance is approved for use with Hearth & Home Technologies DVP or SLP venting systems. Refer to Section 12.A for vent component information and dimensions. Only use listed decorative termination caps/shrouds with Hearth & Home Technologies approved venting systems.

DO NOT mix pipe, fittings or joining methods from different manufacturers.

The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall.

Approved Pipe - Flex

WARNING! Risk of Fire or Asphyxiation. *This appliance requires a separate vent.* ***DO NOT*** *vent to a pipe serving a separate solid fuel burning appliance.*

This appliance is approved for use with Hearth & Home Technologies SLP-FLEX (6-5/8 in.) and SLP-FLEX7 (7 inch) venting systems.

DO NOT mix pipe, fittings or joining methods from different manufacturers. SLP-FLEX and SLP-FLEX7

venting cannot be interchanged.

SLP-FLEX (6-5/8 Inch): venting may be used in any venting configuration shown in the venting tables provided that the horizontal vent length is reduce by 25%.

SLP-FLEX7 (7 Inch-Canada Only): venting requires adapter collars to transition from the 6-5/8 in. appliance starting collar and to the 6-5/8" termination cap. Refer to installation instructions included with the SLP-FLEX7 collar adapter (SLP-FLEX7-A). SLP-FLEX7 Series venting is approved for use in Canada only.

SL-9 (NG and Propane) is not approved for use with SLP-FLEX7 venting.

The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall.

B. Vent Termination Minimum Clearances

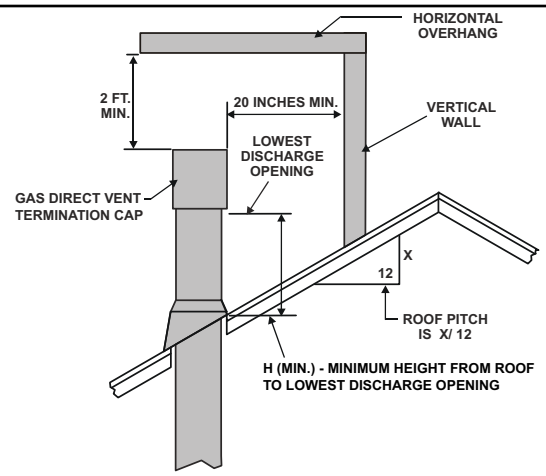
⚠ WARNING

Fire Risk.

Maintain vent clearance to combustibles as specified.

- **DO NOT** pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe could cause overheating and fire.

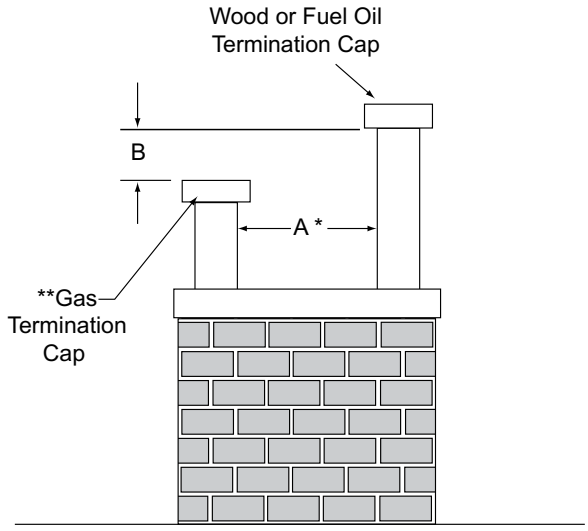


Roof Pitch	H (Min.) Ft
Flat to 6/12	1.0*
Over 6/12 to 7/12	1.25*
Over 7/12 to 8/12	1.5*
Over 8/12 to 9/12	2.0*
Over 9/12 to 10/12	2.5*
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8.0

* H minimum may vary depending on regional snowfall. Refer to local codes.

Figure 4.1 Minimum Height From Roof to Lowest Discharge Opening

A	B
6 in. (minimum) up to 20 in. *152 mm/508 mm*	18 in. minimum *457 mm*
20 in. and over	0 in. minimum



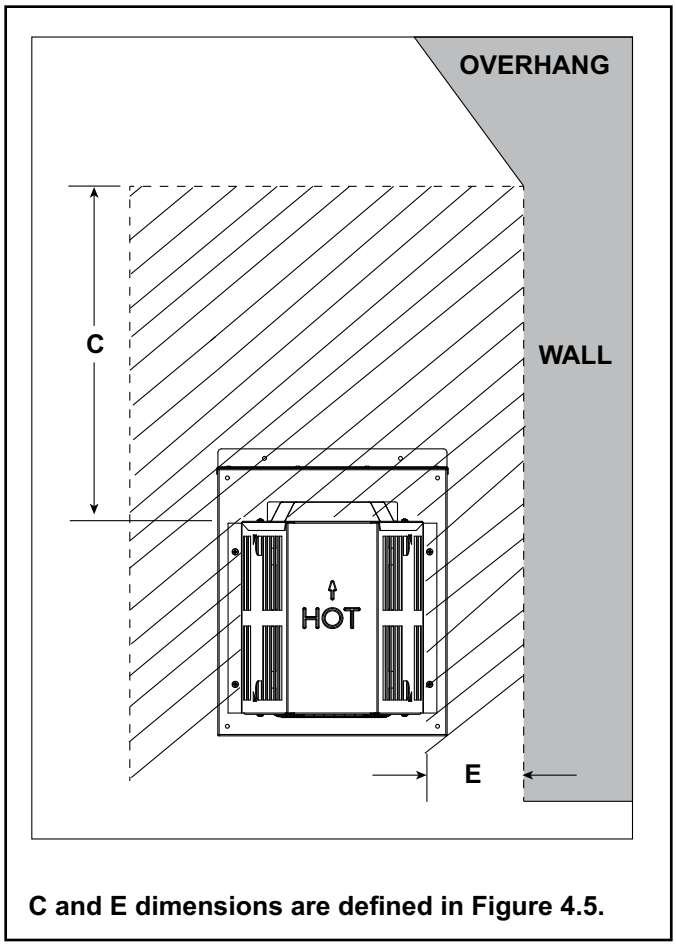
* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

** If two gas terminations are present, they may be level (B = 0 inches) provided A is a minimum of 6 inches.

Figure 4.2 Staggered Termination Caps

CAUTION! Risk of Burns! *Termination caps are HOT, consider proximity to doors, traffic areas or where people may pass or gather (sidewalk, deck, patio, etc.). Listed cap shields available. Contact your dealer.*

- Local codes or regulations may require different clearances.
- Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.
- Vinyl protection kits are suggested for use with vinyl siding.
- Measure horizontal and vertical termination cap clearances as noted in Figure 4.3 and Figure 4.4.



C and E dimensions are defined in Figure 4.5.

Figure 4.4 Measure Horizontal and Vertical Termination Clearance to Trapezoid Portion of Cap

H=Measure Horizontal Distances from H
V=Measure Vertical Distances from V

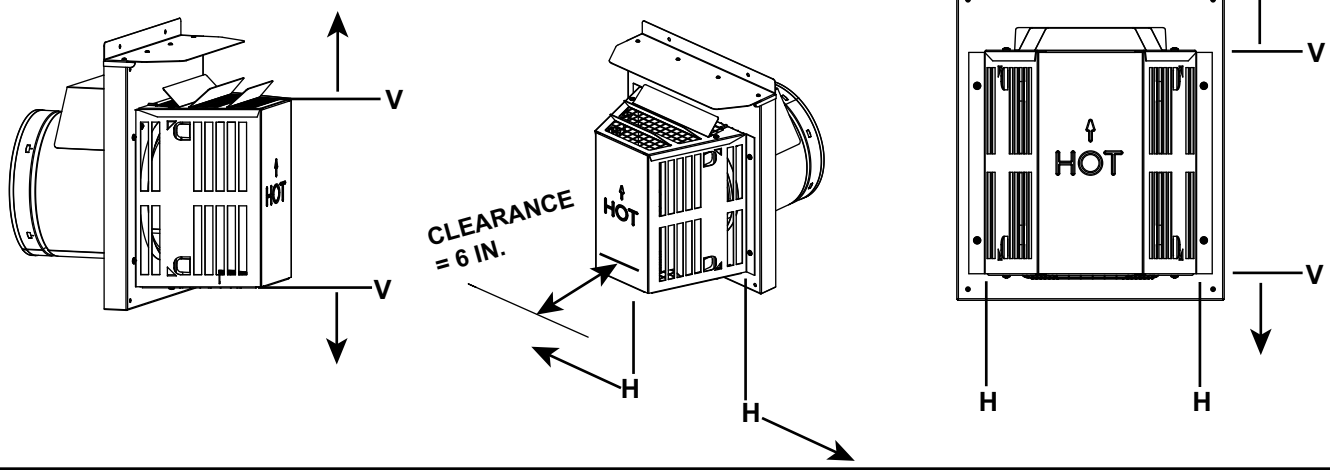
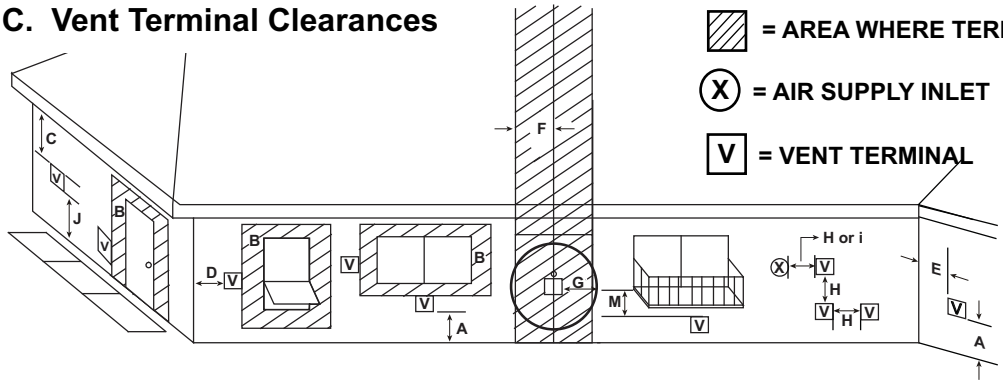
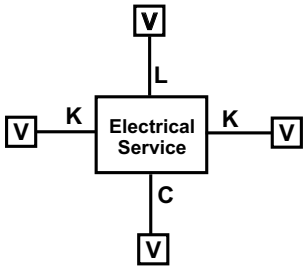


Figure 4.3

C. Vent Terminal Clearances





U.S.A. Installations: In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.
Canadian Installations: In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code.

		U.S.A.	CANADA
A	clearance above grade,veranda, porch, deck, balcony or roof.	12 in. (305 mm)	12 in. (305 mm)
B	clearance to window or door that may be opened, or to permanently closed window	9 in min. (229 mm min.)	12 in. min. (305 mm min.)
C	clearance below unventilated soffit	18 in. (457 mm)	18 in. (457 mm)
	clearance below ventilated soffit	18 in. (457 mm)	18 in. (457 mm)
	clearance below any vinyl soffits and electrical service	30 in. (762 mm)	30 in. (762 mm)
D	clearance to outside corner	6 in. (152 mm)	6 in. (152 mm)
E	clearance to inside corner	6 in. (152 mm)	6 in. (152 mm)
F	clearance to each side of center line extended above gas meter/regulator assembly	Clearance in accordance with local installation codes and the requirements of the gas supplier.	3 ft (914 mm) within a height 15 ft (4.5 m) above the meter/regulator assembly
G	clearance to gas service regulator vent outlet	3 ft (914 mm)	3 ft (914 mm)
H	clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance termination (mechanical or non-mechanical)	9 in min. (229 mm min.)	12 in. min. (305 mm min.)
I	clearance to a mechanical (powered) air supply inlet ***(All mechanical air intakes within 10 feet of a horizontal termination cap must be a minimum of 3 feet below termination.)	3 ft (914 mm)***	6 ft (1.8 m)
J	On **public** property: clearance above paved sidewalk or a paved driveway.	7 ft (2.1 m)	7 ft (2.1 m)**
	**(A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.)		
K	clearance from sides of electrical service	6 in. (152 mm)	6 in. (152 mm)
	Location of the vent termination must not interfere with access to the electrical service.		
L	clearance above electrical service	12 in. (305 mm)	12 in. (305 mm)
	Location of the vent termination must not interfere with access to the electrical service.		
M	clearance under veranda, porch, deck, balcony or overhang *(Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.)	18 in. (457 mm)	12 in. (305 mm)*
	vinyl or composite overhang	42 in. (1.1 m)	42 in. (1.1 m)

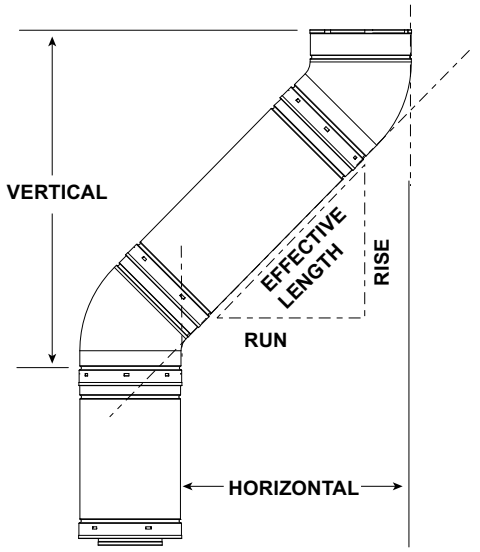
Figure 4.5 Minimum Clearances for Termination

D. Use of Elbows

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect. See Figure 4.6.

Two 45º elbows may be used in place of one 90º elbow. On 45º runs, one foot of diagonal is equal to 8-1/2 inch (216 mm) horizontal run and 8-1/2 inch (216 mm) vertical run. A length of straight pipe is allowed between two 45º elbows. See Figure 4.6.

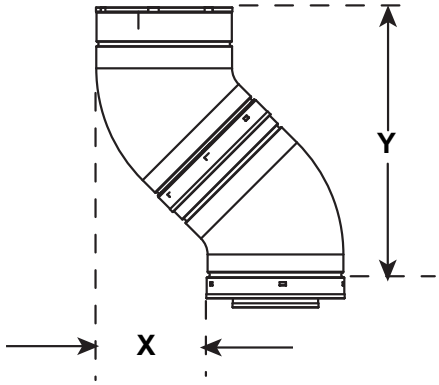
Figure 4.7 shows the vertical and horizontal offsets for DVP or SLP elbows.



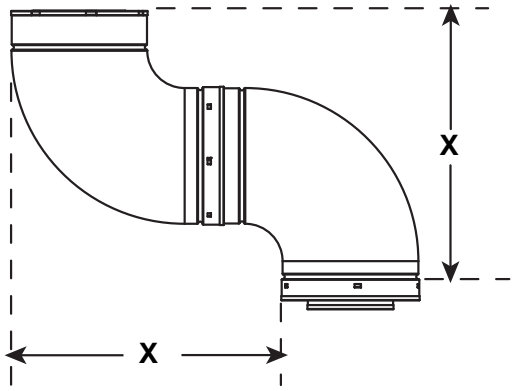
SLP Pipe	Effective Length		Rise/Run	
	Inches	Millimeters	Inches	Millimeters
SLP4	4	102	2-3/4	70
SLP6	6	152	4-1/4	108
SLP12	12	305	8-1/2	216
SLP24	24	610	17	432
SLP36	36	914	25-1/2	648
SLP48	48	1219	34	864
SLP6A	3 to 6	76 to 152	2-1/8-4-1/4	54-108
SLP12A	3 to 12	76 to 305	2-1/8-8-1/2	54-216

DVP Pipe	Effective Length		Rise/Run	
	Inches	Millimeters	Inches	Millimeters
DVP4	4	102	2-3/4	70
DVP6	6	152	4-1/4	108
DVP12	12	305	8-1/2	216
DVP24	24	610	17	432
DVP36	36	914	25-1/2	648
DVP48	48	1219	34	864
DVP6A	3 to 6	76 to 152	2-1/8-4-1/4	54-108
DVP12A	3 to 12	76 to 305	2-1/8-8-1/2	54-216

Figure 4.6



Vent Type	X		Y	
	Inches	Millimeters	Inches	Millimeters
DVP	6-5/8	168	16-1/2	419
SLP	5-1/4	133	11-3/8	289



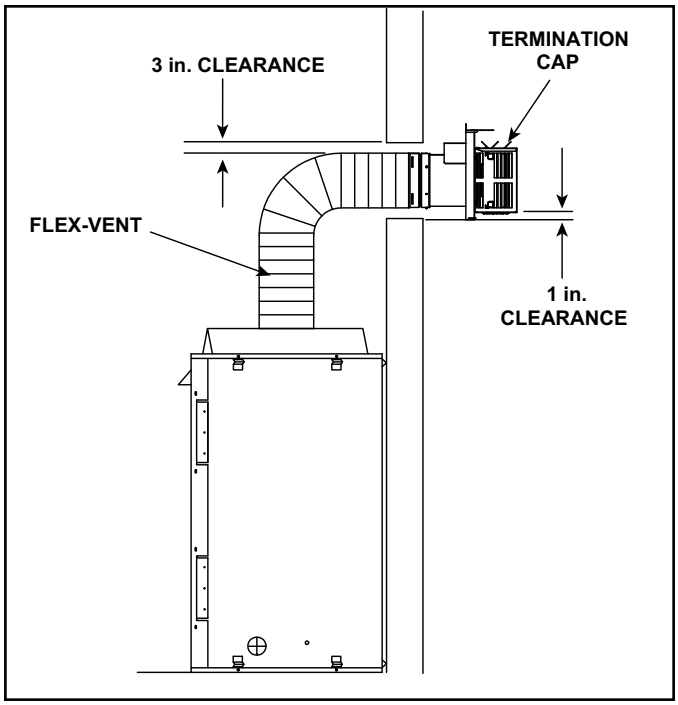
Vent Type	X	
	Inches	Millimeters
DVP	16-1/4	413
SLP	11-1/4	286

Figure 4.7 Vertical and Horizontal Offset for DVP and SLP Elbows

E. Use of Flex Vent (SLP-FLEX Series 6-5/8 Inch)

The flex vent must be supported with the spacing between support intervals not exceeding 4 feet, with no more than 1/2 inch sag between supports.

A support is required at each change in venting direction, and in any location where it is necessary to maintain the necessary clearance to combustibles. A simple “up and out” installation (Figure 4.8) requires only enough support to maintain the necessary clearance to combustibles. However, the vent attachment point and the firestop location are considered to be supports.

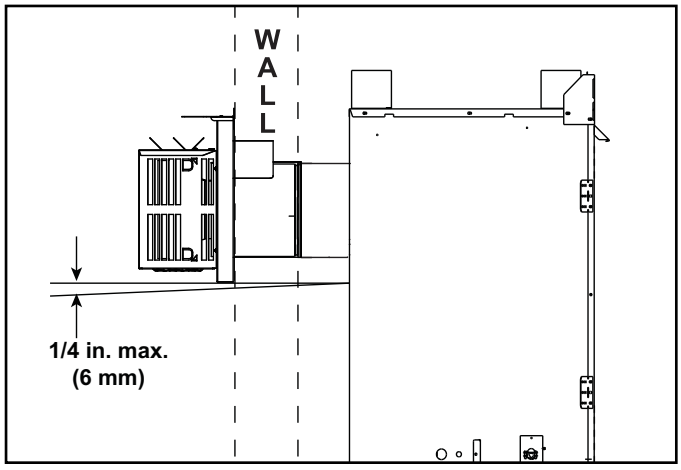


➔ **Figure 4.8 Flex Vent Pipe - Generic Fireplace Shown**

F. Vent Diagrams

General Rules:

- SUBTRACT 3 ft. from the total H measurement for each 90º elbow installed horizontally.
- SUBTRACT 1-1/2 ft. from the total H measurement for each 45º elbow installed horizontally.
- **Rear Vented:** A maximum of three 90º elbows (or six 45º elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.23 and 4.25.
- **Top Vented:** A maximum of four 90º elbows (or eight 45º elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.18.
- Elbows may be placed back to back anywhere in the system.
- Any 90º elbow may be replaced with two back to back 45º elbows.
- When penetrating a combustible wall, a wall shield firestop must be installed.
- When penetrating a combustible ceiling, a ceiling firestop must be installed.
- Horizontal runs of vent do not require vertical rise; horizontal runs may be level.
- Horizontal termination cap should have a 1/4 inch downward slant to allow any moisture in cap to be released. See Figure 4.9.



➔ **Figure 4.9**

Measuring Standards:

Vertical and horizontal measurements listed in the vent diagrams and clearances for termination were made using the following standards:

- Pipe measurements are shown using the effective length of pipe. See Section 12.A (Figure 12.1 for DVP, Figure 12.9 for SLP) for information on effective length of pipe components.
- Horizontal terminations are measured to the outside mounting surface (flange of termination cap). See Figure 4.10.
- Vertical terminations are measured to top of last section of pipe. See Figure 4.11.
- Horizontal pipe installed level with no rise.

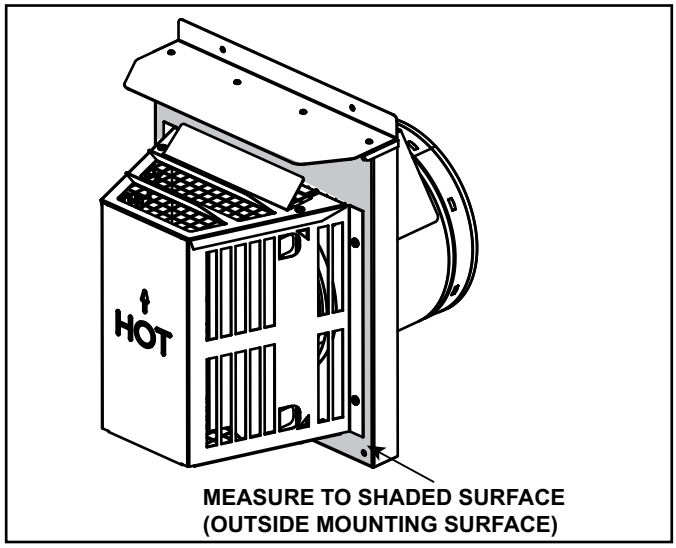


Figure 4.10 Measure to Outside Mounting Surface ←

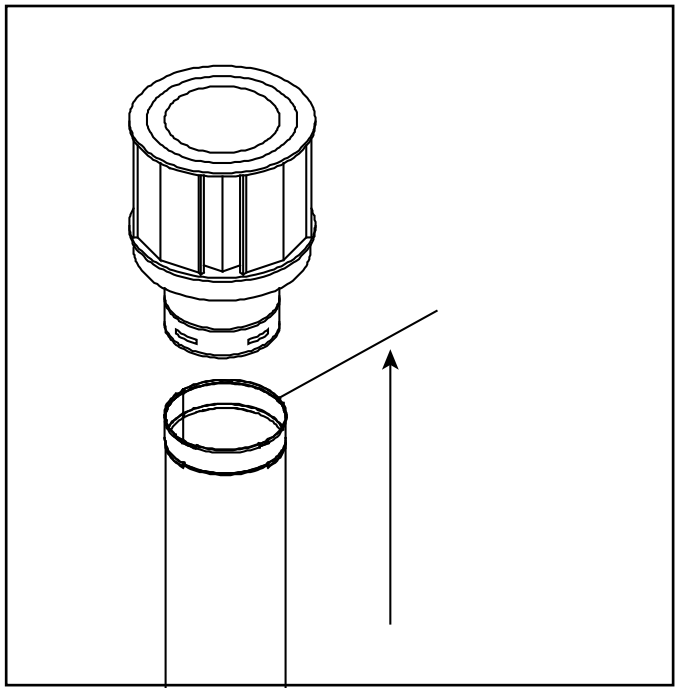


Figure 4.11 Measure to Top of Last Section of Pipe

Top Vent - Horizontal Termination

One Elbow

Note: Use SLP Series components only.

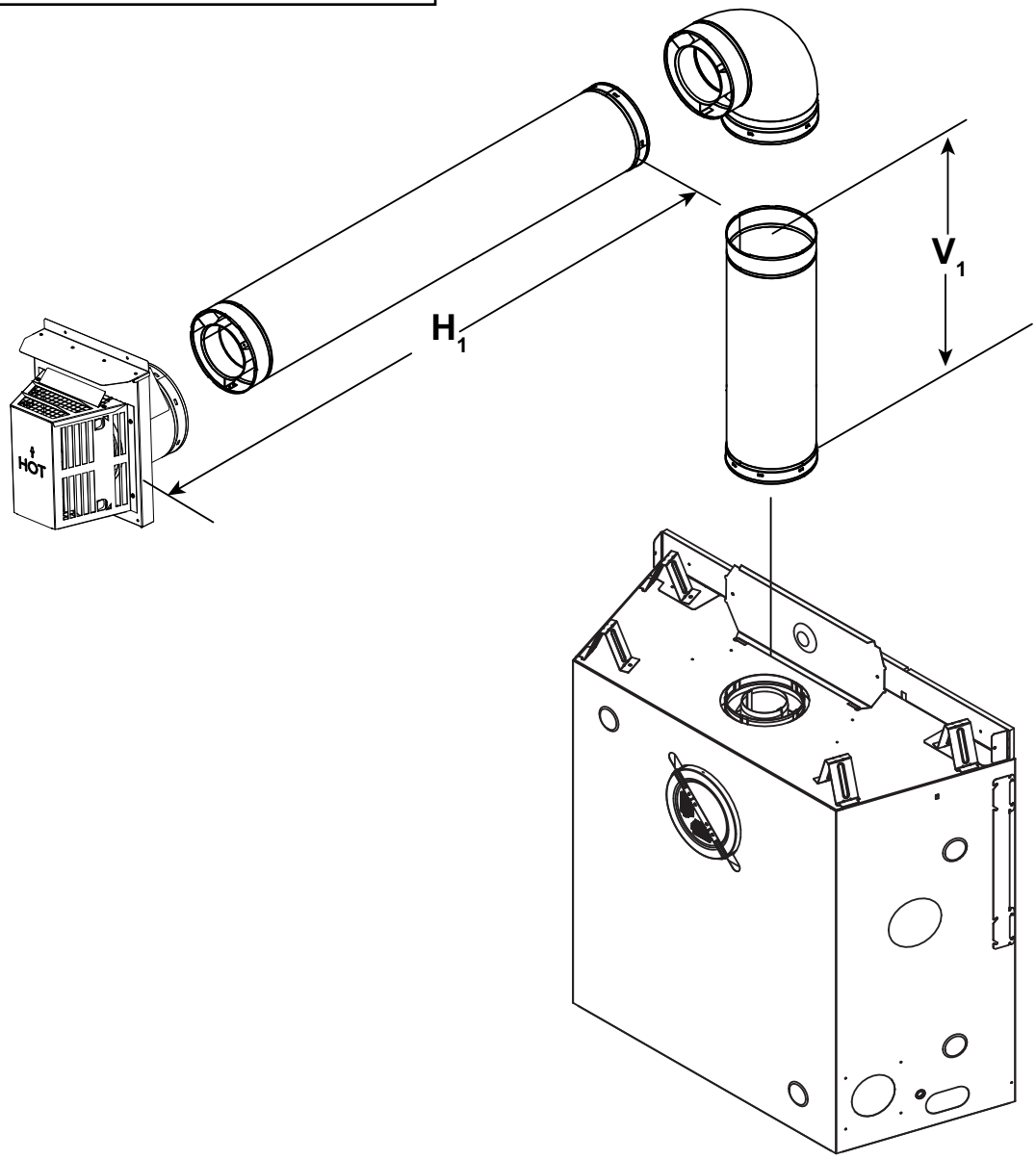
****Note**: When using **SLP-FLEX (6-5/8 in.)** venting, there MUST be a 25% reduction in total H when using flex vent. See Figure 4.8.

V_1 Minimum		H_1 Maximum**	
90 Elbow*		18 in.	457 mm
1/2 ft.*	152 mm	2 ft.	610 mm
1-1/2 ft.	457 mm	3 ft.	914 mm
2-1/2 ft.	762 mm	5 ft.	1.5 m
3-1/2 ft.	1.1 m	7 ft.	2.1 m
4-1/2 ft.	1.4 m	14 ft.	4.3 m
H MAX. =14 ft. (4.3 m) V + H MAX. = 40 ft. (12.2 m) * See warning below			

⚠ WARNING *

Fire Risk.

- When using SLP-HRC-SS termination cap on top vented fireplaces, a one foot minimum vertical vent section is required before installing first elbow.



➔ **Figure 4.12**

Top Vent - Horizontal Termination - (continued)

Two Elbows

Note: Use SLP Series components only.

****Note**: When using **SLP-FLEX (6-5/8 in.)** venting, there MUST be a 25% reduction in total H when using flex vent. See Figure 4.8.

V Minimum		$H_1 + H_2$ Maximum**	
90 Elbow*		1/2 ft.	152 mm
1/2 ft.*	152 mm	1 ft.	305 mm
1-1/2 ft.	457 mm	2 ft.	610 mm
2-1/2 ft.	762 mm	4 ft.	1.2 m
3-1/2 ft.	1.1 m	6 ft.	1.8 m
4-1/2 ft.	1.4 m	14 ft.	4.3 m
$H + H_1$ MAX. =14 ft. (4.3 m) $V + H + H_1$ MAX. = 40 ft. (12.2 m) * See warning below			

⚠ WARNING *

Fire Risk.

- When using SLP-HRC-SS termination cap on top vented fireplaces, a one foot minimum vertical vent section is required before installing first elbow.

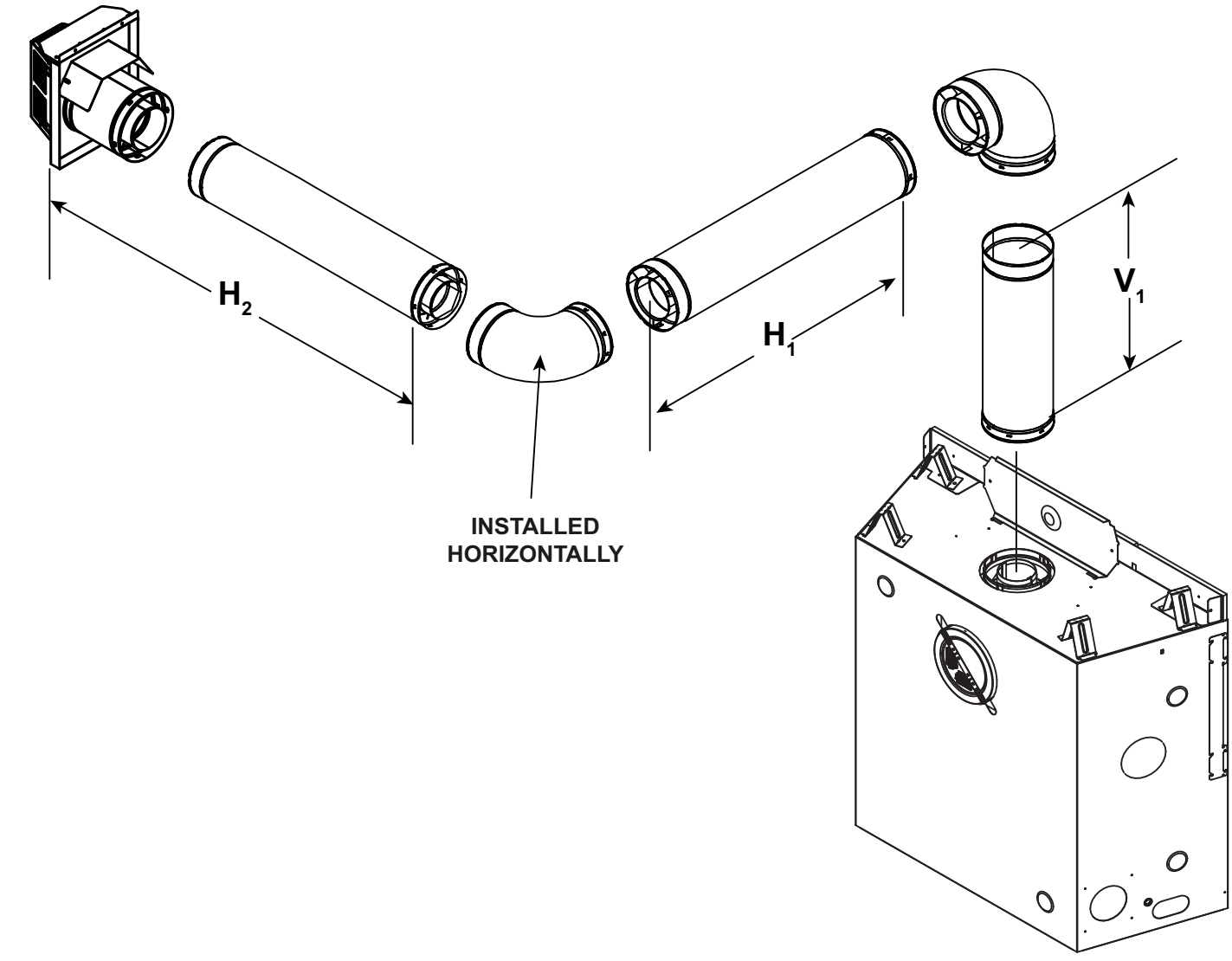


Figure 4.13

Top Vent - Horizontal Termination - (continued)

Note: Use SLP Series components only.

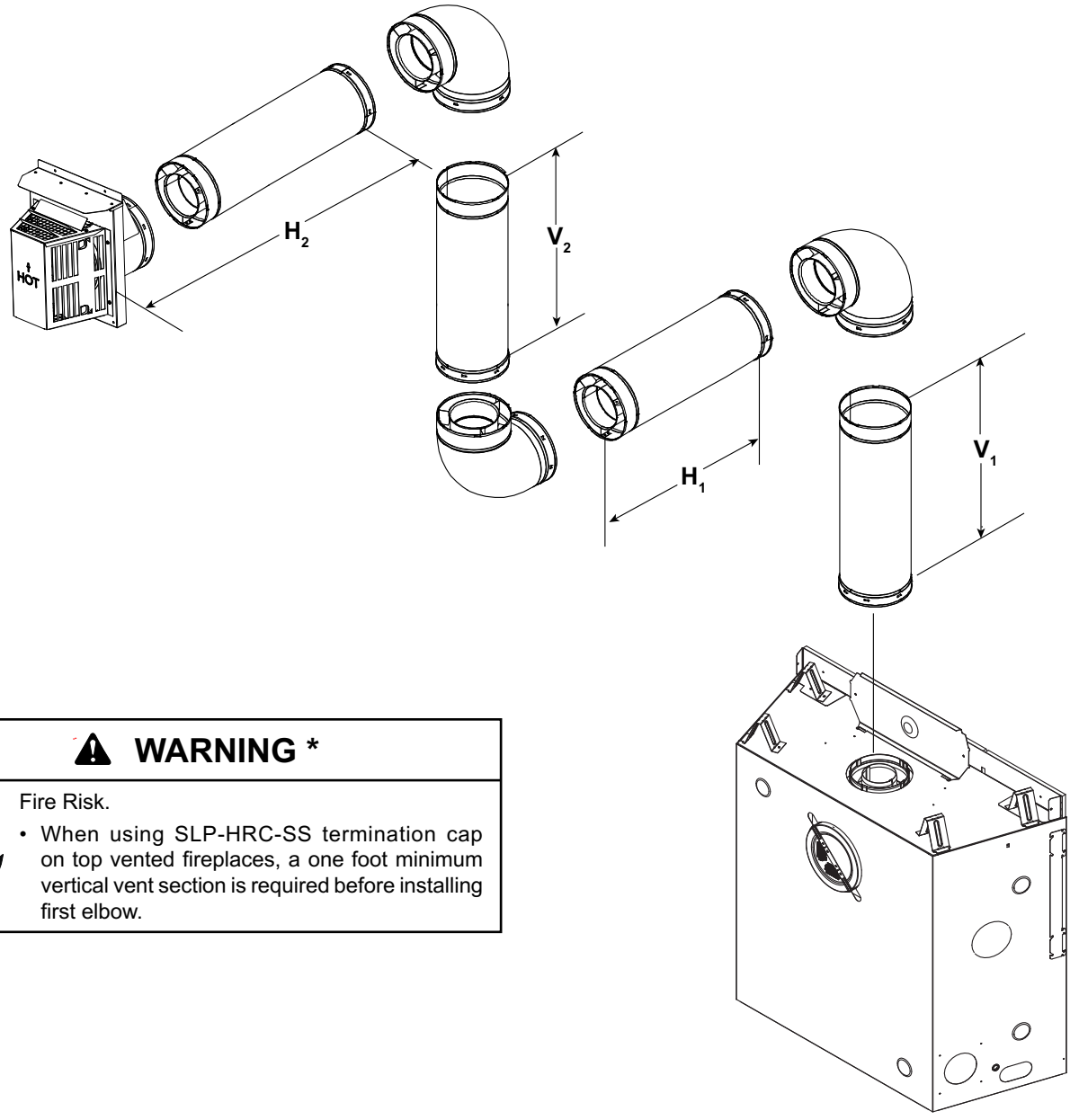
****Note**: When using **SLP-FLEX (6-5/8 in.)** venting, there MUST be a 25% reduction in total H when using flex vent. See Figure 4.8.

V_1 Minimum		$H_1 + H_2$ Maximum**		V_2	$V_1 + V_2$ Min.
90 Elbow*		2 ft.	610 mm	*	*
1/2 ft.*	152 mm	6 ft.	1.8 m	*	*
1-1/2 ft.	457 mm	10 ft.	3.0 m	*	*
2-1/2 ft.	762 mm	12 ft.	3.7 m	*	*
3-1/2 ft.	1.1 m	14 ft.	4.3 m	*	*

$H_1 + H_2$ MAX. =14 ft. (4.3 m)
$V_1 + V_2 + H_1 + H_2$ MAX. = 40 ft. (12.2 m)

*No specific restrictions on this value EXCEPT $V_1 + V_2 + H$ cannot exceed 40 ft. (12.2 m)

* See warning below



⚠ WARNING *

Fire Risk.

- When using SLP-HRC-SS termination cap on top vented fireplaces, a one foot minimum vertical vent section is required before installing first elbow.

➔ **Figure 4.14**

Top Vent - Vertical Termination

No Elbow

Note: Use SLP Series components only.

Note: If installing a vertical vent/termination off the top of the appliance, the optional vertical termination baffle may be needed.

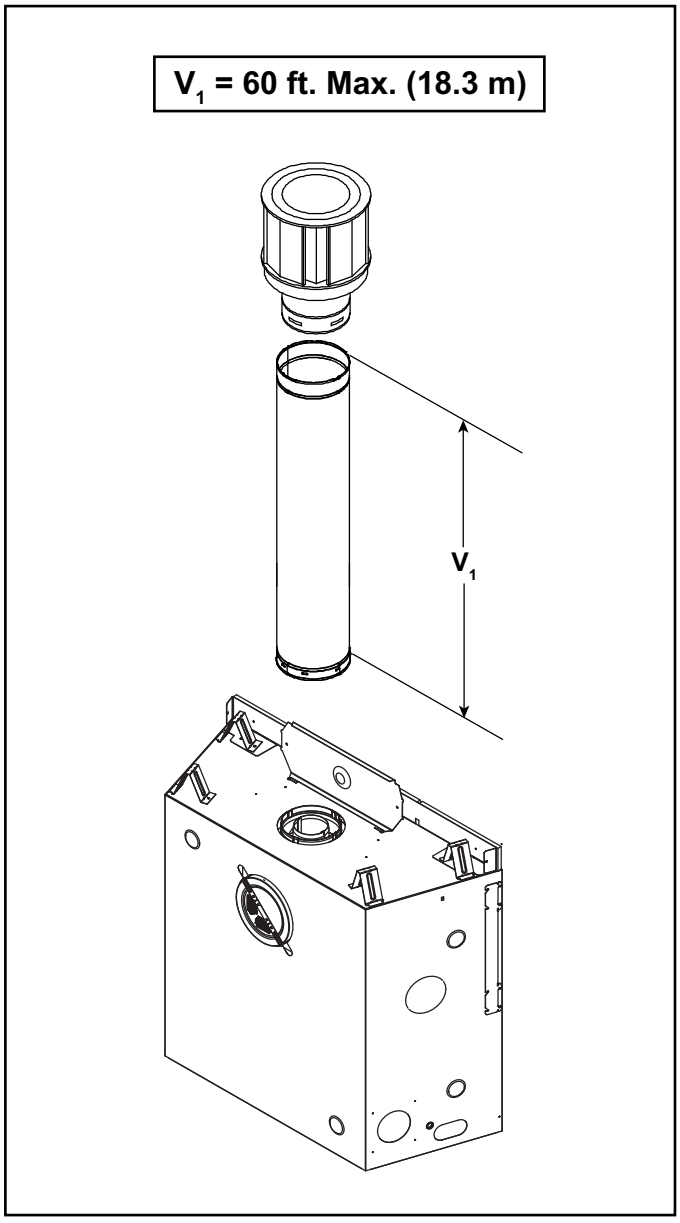


Figure 4.15

Exhaust restrictor Instructions

Exhaust restrictors are recommended for these vertically terminated products which have excessive draft. Exhaust restrictors will compensate for high draft, and restore visual flame height. If the vent configuration has a total vertical of 15-60 feet, an exhaust restrictor may be used. The exhaust restrictor can be located in the appliance manual bag.

1. Install the exhaust restrictor over the center of the exhaust outlet in the firebox. See Figure 4.16.
2. Center the exhaust restrictor in the open end of the exhaust outlet and secure through the slots on the exhaust restrictor with the two 1/4 in. self-tapping screws provided in the appliance manual bag.

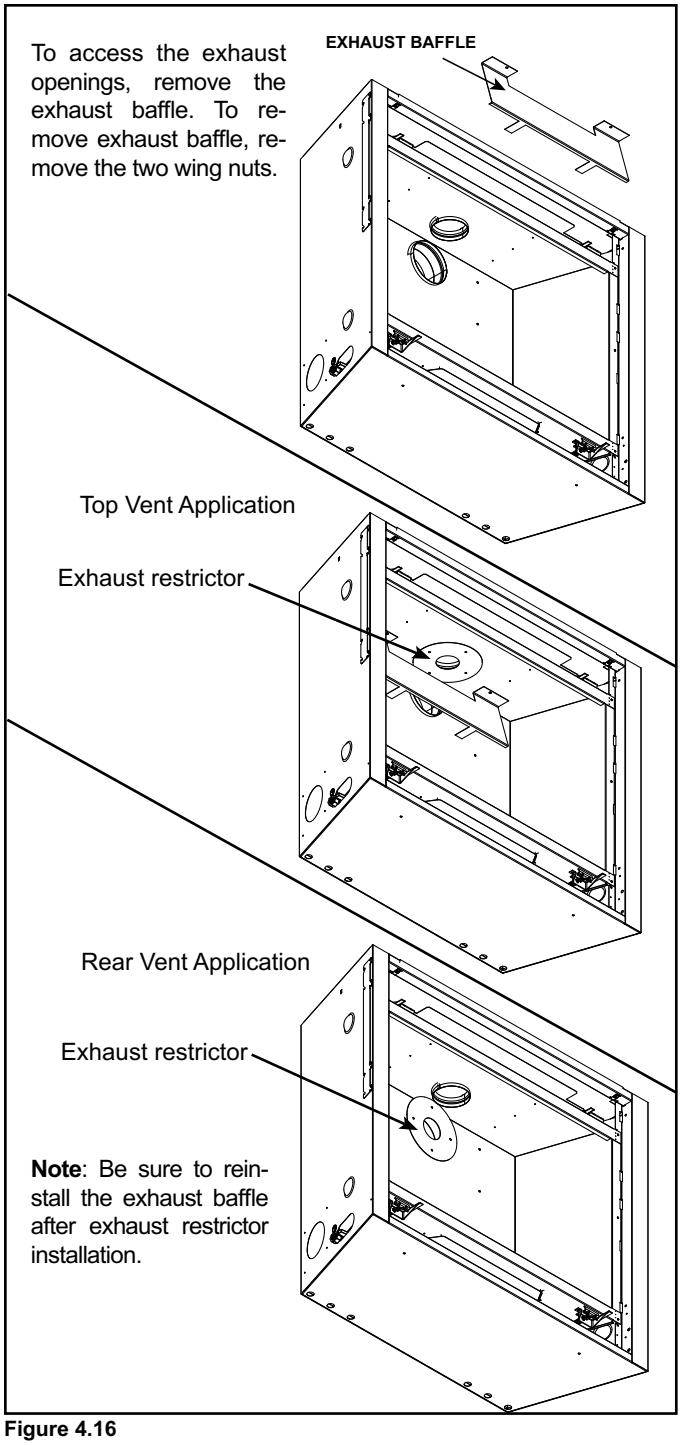


Figure 4.16

Top Vent - Vertical Termination - (continued)

Two 90º Elbows

Note: Use SLP Series components only.

****Note**: When using **SLP-FLEX (6-5/8 in.)** venting, there MUST be a 25% reduction in total H when using flex vent. See Figure 4.8.

V_1 MIN.		H MAX.**		V_2	$V_1 + V_2$ MIN.
90 Elbow		1-1/2 ft.	457 mm	*	*
1/2 ft.	152 mm	2 ft.	610 mm	*	*
1-1/2 ft.	457 mm	3 ft.	914 mm	*	*
2-1/2 ft.	762 mm	5 ft.	1.5 m	*	*
3-1/2 ft.	1.1 m	7 ft.	2.1 m	*	*
4-1/2 ft.	1.4 m	15 ft.	4.6 m	*	*
H MAX. =15 ft. (4.6 m) $V_1 + V_2$ + H MAX. = 40 ft. (12.2 m) * No specific restrictions on this value EXCEPT $V_1 + V_2$ + H cannot exceed 40 ft. (12.2 m)					

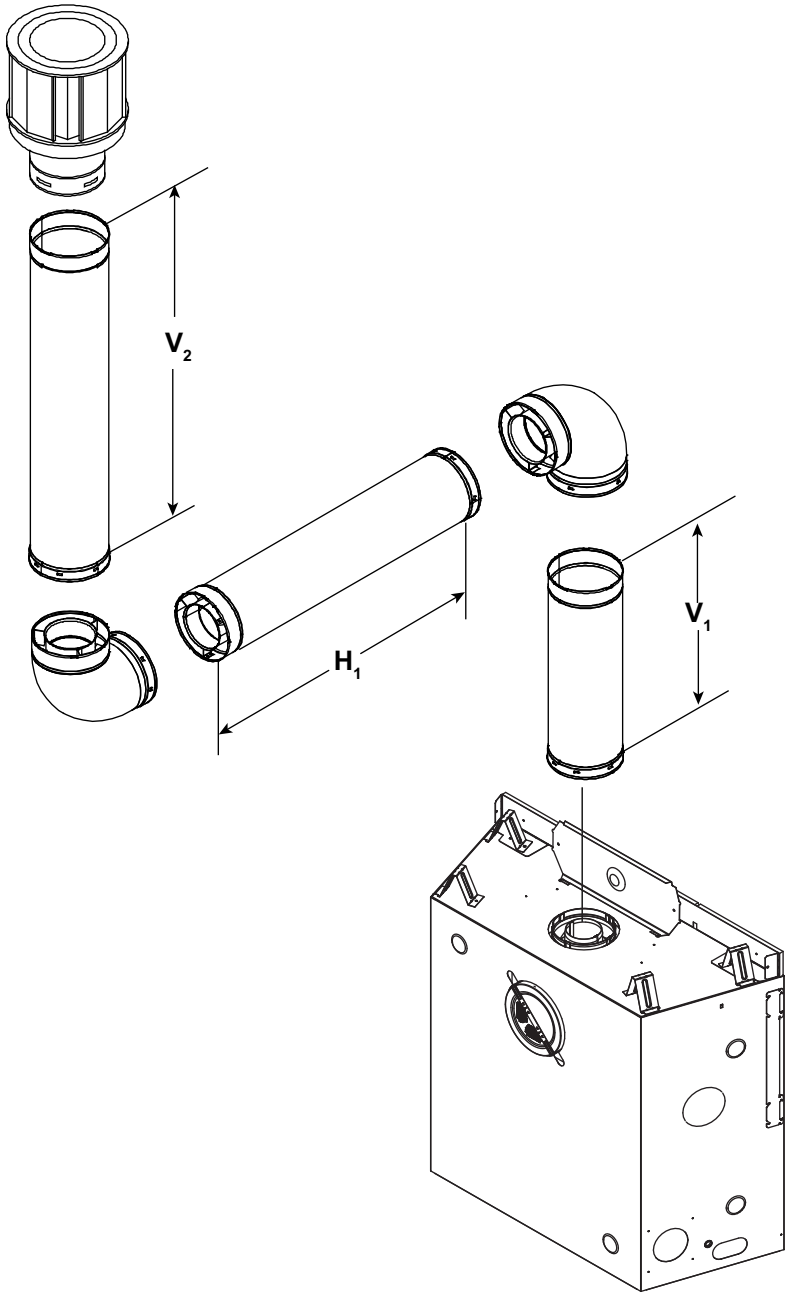


Figure 4.17

Top Vent - Vertical Termination - (continued)

Three Elbows

Note: Use SLP Series components only.

****Note**: When using **SLP-FLEX (6-5/8 in.)** venting, there MUST be a 25% reduction in total H when using flex vent. See Figure 4.8.

V_1 MIN.		H MAX.**		V_2	$V_1 + V_2$ MIN.
90 Elbow		1/2 ft.	152 mm	*	*
1/2 ft.	152 mm	1 ft.	305 mm	*	*
1-1/2 ft.	457 mm	2 ft.	610 mm	*	*
2-1/2 ft.	762 mm	4 ft.	1.2 m	*	*
3-1/2 ft.	1.1 m	6 ft.	1.8 m	*	*
4-1/2 ft.	1.4 m	14 ft.	4.3 m	*	*
H MAX. =14 ft. (4.3 m) $V_1 + V_2 + H_1 + H_2$ MAX. = 40 ft. (12.2 m) * No specific restrictions on this value EXCEPT $V_1 + V_2 + H_1 + H_2$ cannot exceed 40 ft. (12.2 m)					

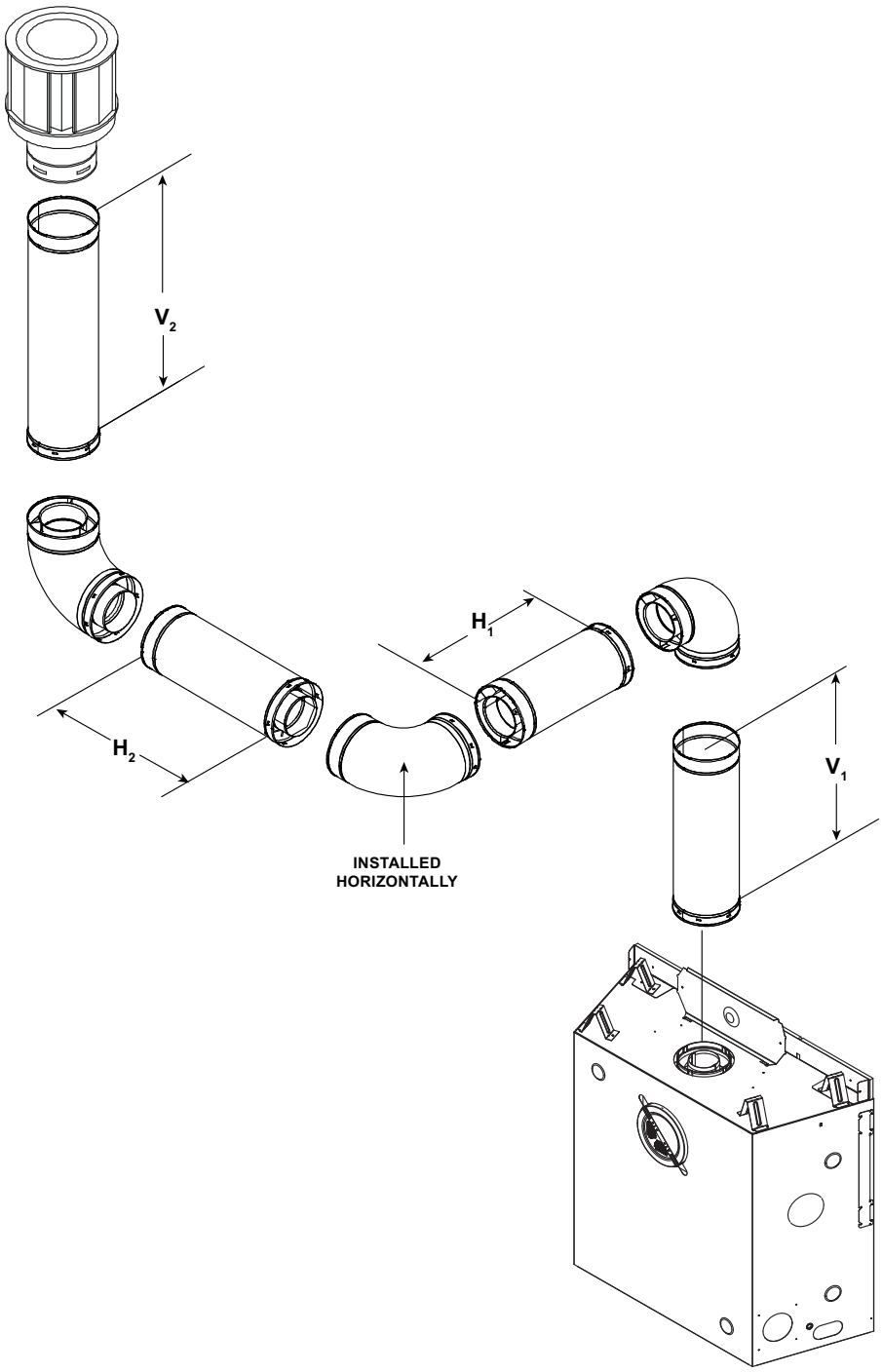


Figure 4.18

Top Vent - Vertical Termination - (continued)

Four 90º Elbows

V_1 Min.		H_1 Max.**		V_2 Min.		H_2 Max.**		V_3 Min.	
1-1/2 ft.	457 mm	4 ft.	1.2 m	4 ft.	1.2 m	4 ft.	1.2 m	3-1/2 ft.	1.0 m
$V_1 + V_2 + V_{3+} H_1 + H_2$ Maximum= 40 ft. (12.2 m)									

Note: Use SLP Series components only.

****Note**: When using **SLP-FLEX (6-5/8 in.)** venting, there MUST be a 25% reduction in total H when using flex vent. See Figure 4.8.

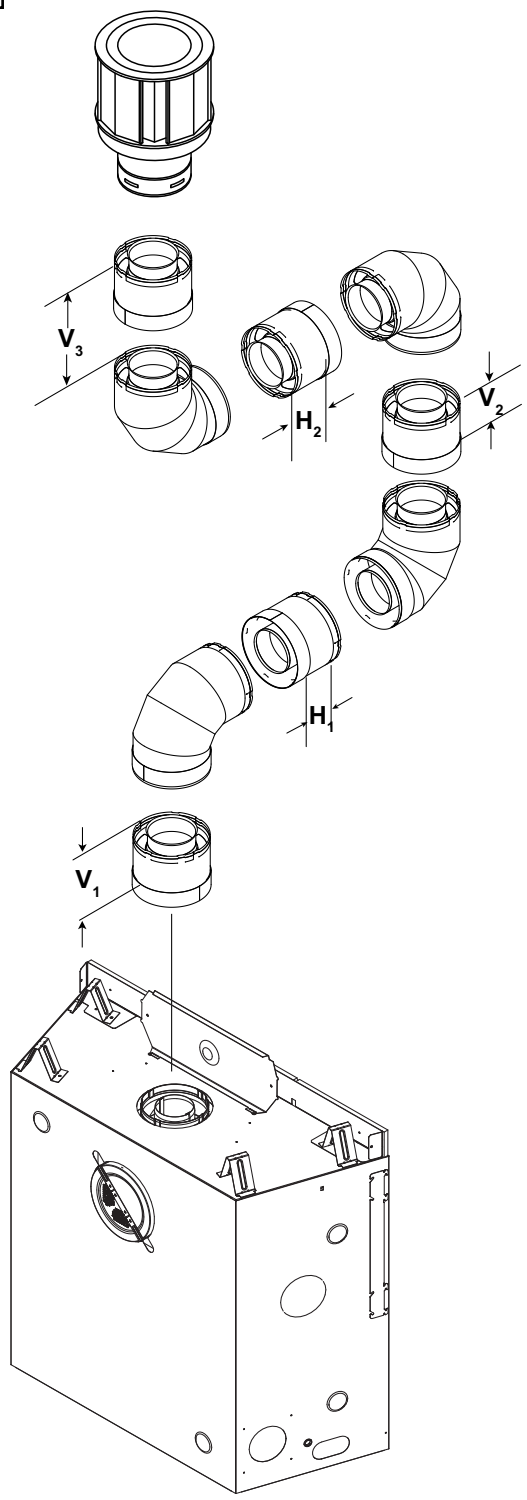


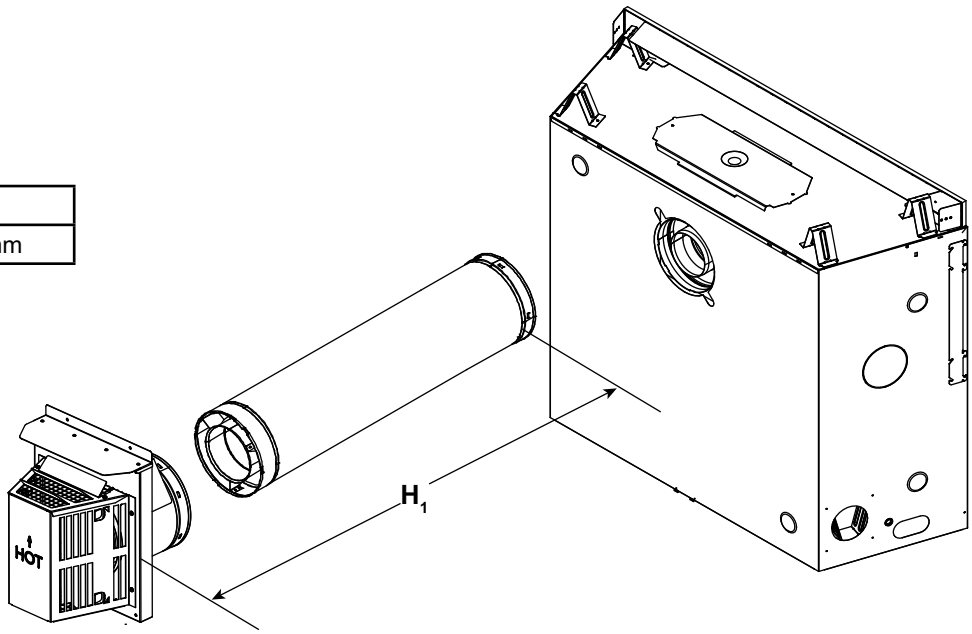
Figure 4.19

Rear Vent - Horizontal Termination

No Elbow

Note: Use DVP Series components only.

H_1 MAX	
24 in.	610 mm



➔ **Figure 4.20**

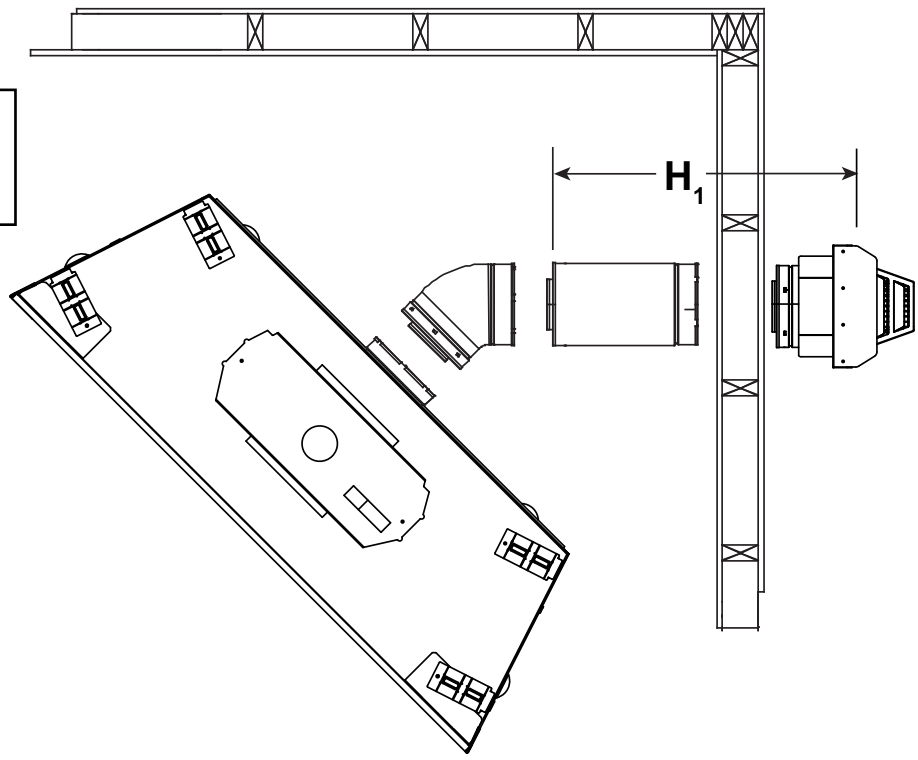
Rear Vent - Horizontal Termination
One 45º Elbow

H_1 = 9 in. (229 mm) Maximum

For corner installation of models **QUARTZ32IFT** and **QUARTZ36IFT** ONLY

Note: Use DVP Series components only.

Note: Do not use a 45º elbow for QUARTZ42IFT. Use two 90º elbows for corner installation on QUARTZ42IFT.



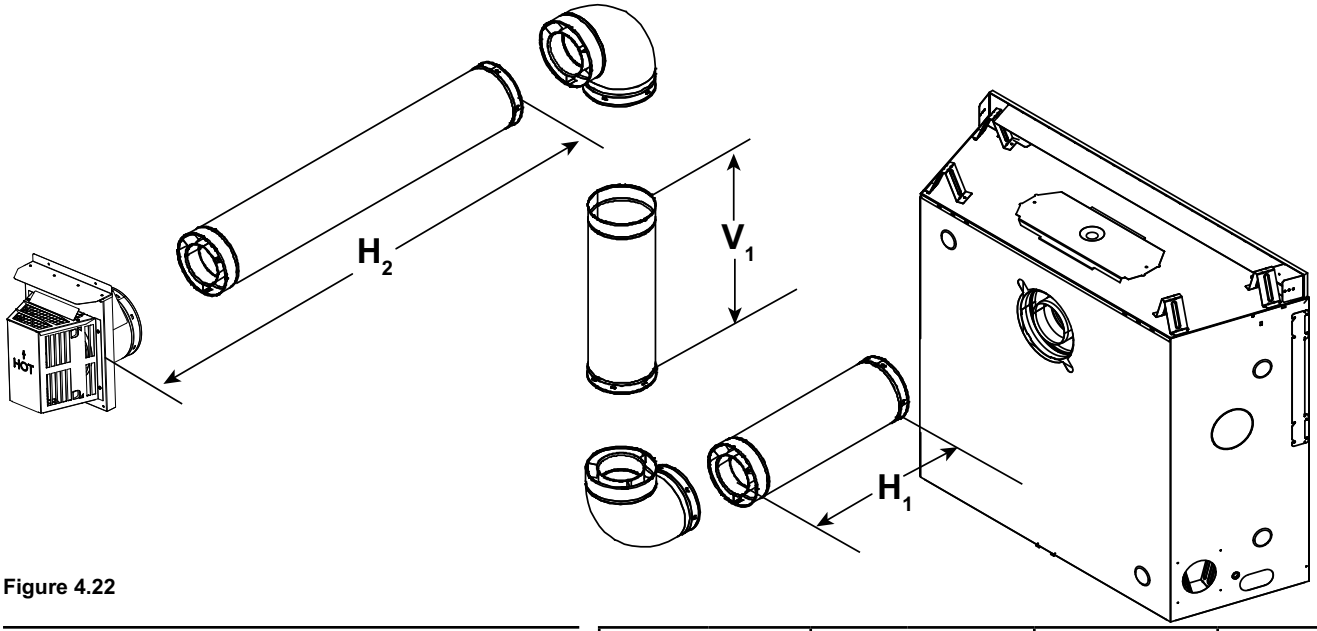
➔ **Figure 4.21**

Rear Vent - Horizontal Termination - (continued)

Two Elbows

Note: Use DVP Series components only.

H_1 MAX.		V_1 MIN.		H_2 MAX.		$H_1 + H_2$ MAX.	
1-1/2 ft.	457 mm	Back to back elbows		1 ft.	305 mm	2-1/2 ft.	762 mm
3 ft.	914 mm	1 ft.	305 mm	3 ft.	914 mm	6 ft.	1.8 m
5 ft.	1.5 m	3 ft.	914 mm	5 ft.	1.5 m	10 ft.	3.0 m
7 ft.	2.1 m	5 ft.	1.5 m	7 ft.	2.1 m	14 ft.	4.3 m
H_1 MAX. = 7 ft. (2.1 m) $H_1 + H_2$ MAX. = 14 ft. (4.3 m) $V_1 + H_1 + H_2$ MAX. = 40 ft. (12.2 m)							

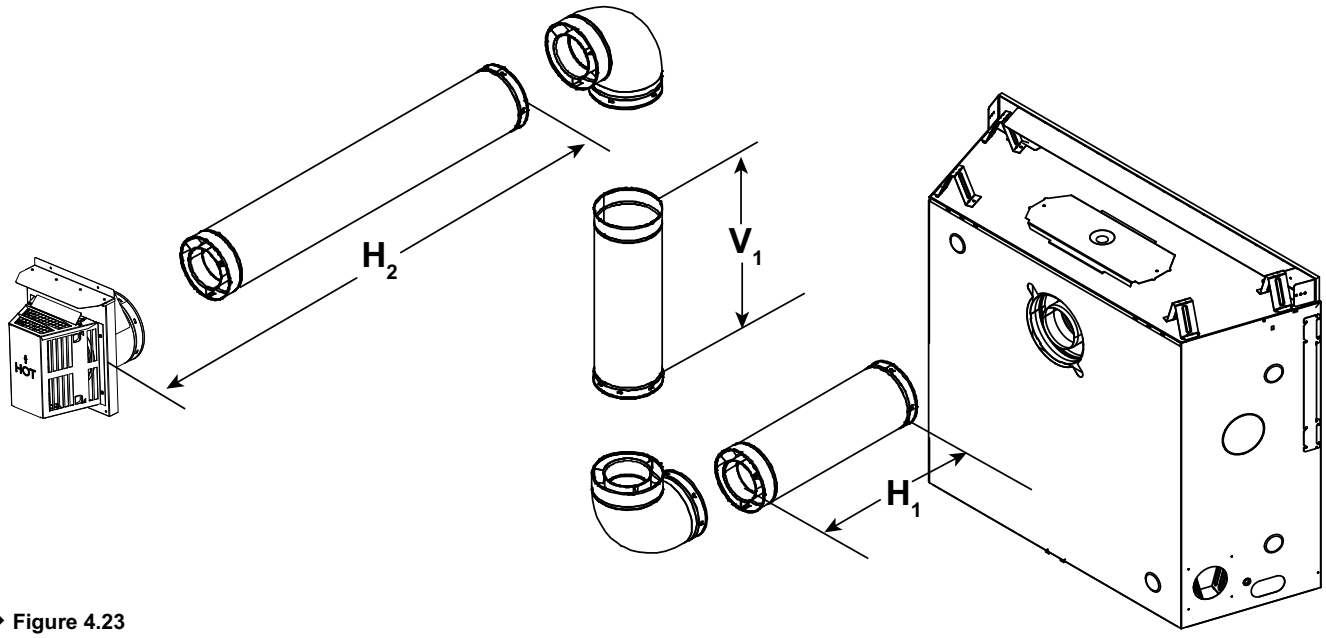


➔ **Figure 4.22**

Three Elbows

Note: Use DVP Series components only.

H_1 MAX.		V_1 MIN.		$H_2 + H_3$ MAX.		$H_1 + H_2 + H_3$ MAX.	
1-1/2 ft.	457 mm	Back to back elbows		1 ft.	305 mm	2-1/2 ft.	762 mm
3-1/2 ft.	1.1 m	1 ft.	305 mm	2 ft.	610 mm	5-1/2 ft.	1.7 m
5-1/2 ft.	1.7 m	2 ft.	610 mm	4 ft.	1.2 m	9-1/2ft.	2.9 m
7-1/2 ft.	2.3 m	3 ft.	914 mm	6 ft.	1.8 m	13-1/2 ft.	4.1 m
H_1 MAX. = 7-1/2 ft. (2.3 m) $H_1 + H_2 + H_3$ MAX. = 13-1/2 ft. (4.1 m) $V_1 + H_1 + H_2 + H_3$ MAX. = 40 ft. (12.2 m)							



➔ **Figure 4.23**

Rear Vent - Vertical Termination

One Elbow

Note: Use DVP Series components only.

V_1 MIN.		H_1 MAX.	
1 ft.	305 mm	3-1/2 ft.	1.1 m
2 ft.	610 mm	5-1/2 ft.	1.7 m
3 ft.	914 mm	7-1/2 ft.	2.3 m
H MAX. = 7-1/2 ft. (2.3 m) $V_1 + H_1$ MAX. = 40 ft. (12.2 m)			

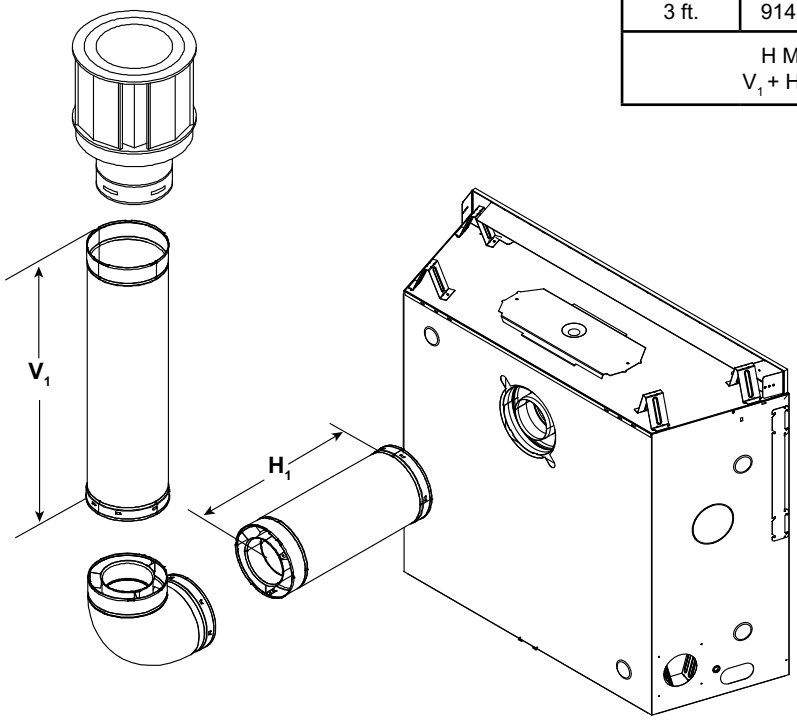


Figure 4.24

Two Elbows

Note: Use DVP Series components only.

$H_1 + H_2$ MAX		V_1 MIN.	
1/2 ft.	152 mm	Back to back elbows	
2-1/2 ft.	762 mm	1 ft.	305 mm
4-1/2 ft.	1.4 m	2 ft.	610 mm
6-1/2 ft.	2.0 m	3 ft.	914 mm
H MAX. = 6-1/2 ft. (2 m) V + H+ H_1 MAX. = 40 ft. (12.2 m)			

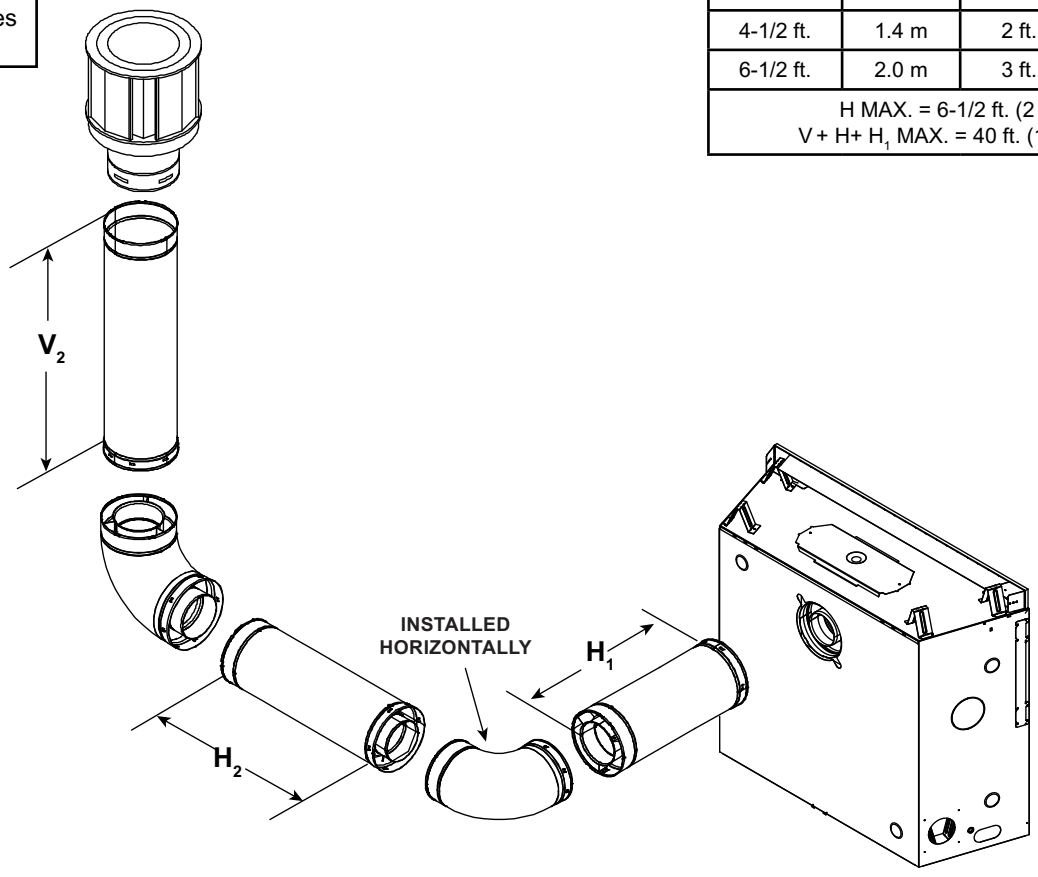


Figure 4.25

Three Elbows

Note: Use DVP Series components only.

H_1 Maximum		V_1 Minimum		H_2 Maximum		$H_1 + H_2$ Maximum	
1-1/2 ft.	457 mm	Back to Back Elbows		1 ft.	305 mm	2-1/2 ft.	762 mm
3-1/2 ft.	1.1 m	1 ft.	305 mm	3 ft.	914 mm	6-1/2 ft.	2.0 m
5-1/2 ft.	1.2 m	2 ft.	610 mm	5 ft.	1.5 m	10-1/2 ft.	3.2 m
7-1/2 ft.	2.3 m	3 ft.	914 mm	7 ft.	2.1 m	14-1/2 ft.	4.4 m
H_1 Maximum = 7-1/2 ft. (2.3 m) $V_1 + V_2 + H_1 + H_2$ Maximum = 40 ft. (12.2 m)							

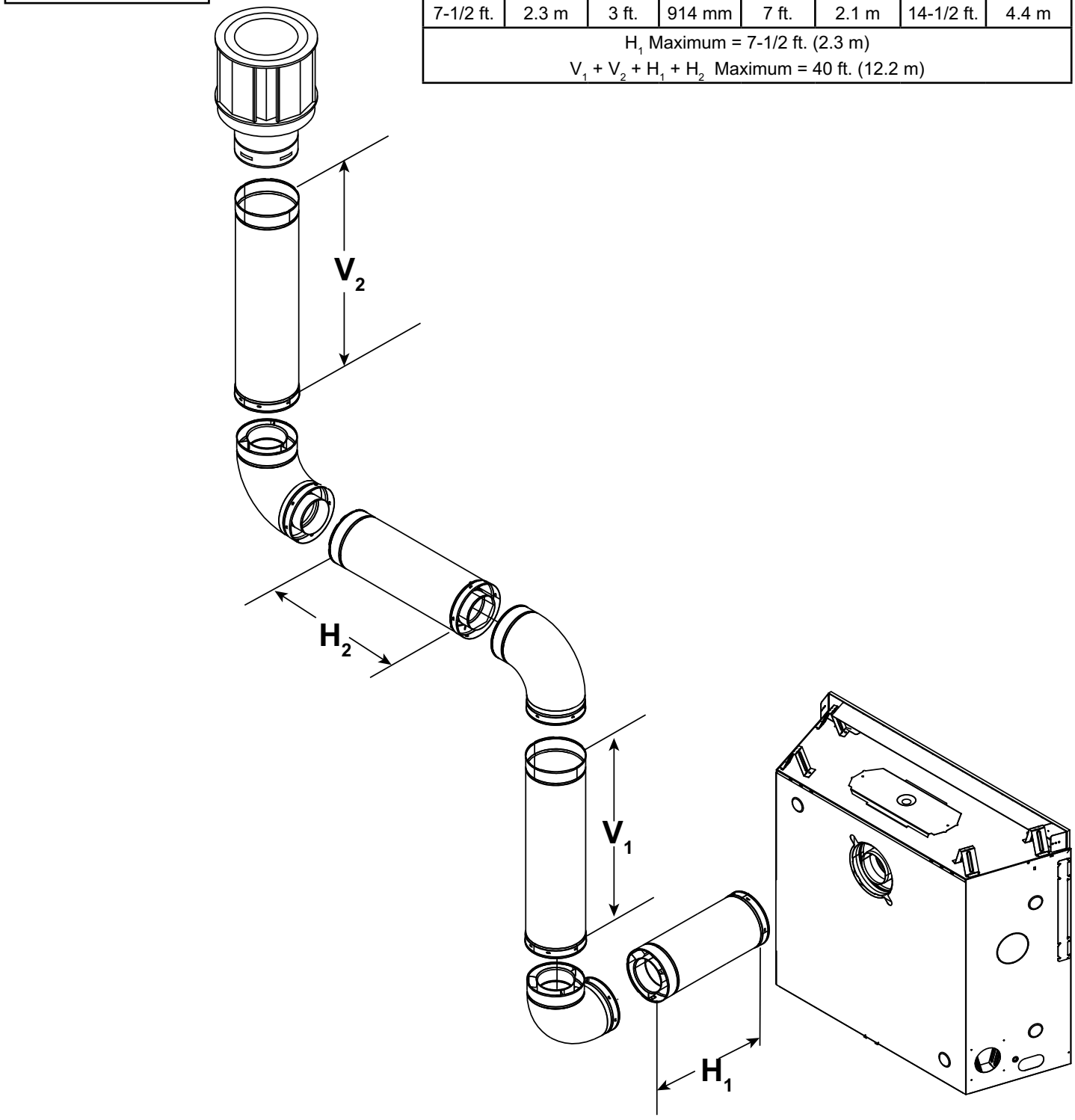


Figure 4.26

Coaxial to Colinear Venting

WARNING! Risk of Fire! *Coaxial to colinear venting configuration may only be used in existing non-combustible chimney. Installation in any other venting application could cause fire.*

The coaxial to colinear adapter (DV-46DVA-GCL) is approved for installations into solid fuel masonry or factory built fireplaces that have been installed in accordance with the National, Provincial, State and local building codes. The coaxial to colinear vent components are shown in Section 12.A. The DV-46DVA-GCL must be recessed into existing masonry fireplace. See Table 1 and Figure 4.27.

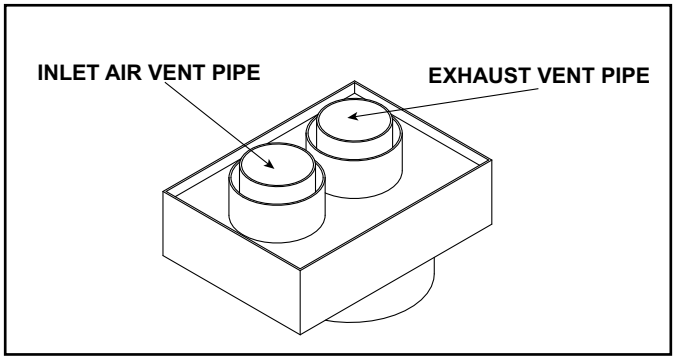


Figure 4.27 Coaxial/Colinear Appliance Connector

Prior to installing the gas appliance:

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.

Table 1

CLEARANCE TO COMBUSTIBLES REQUIREMENTS	
DV-46DVA-GCL	3 IN.
Exhaust Vent Pipe	5 IN.

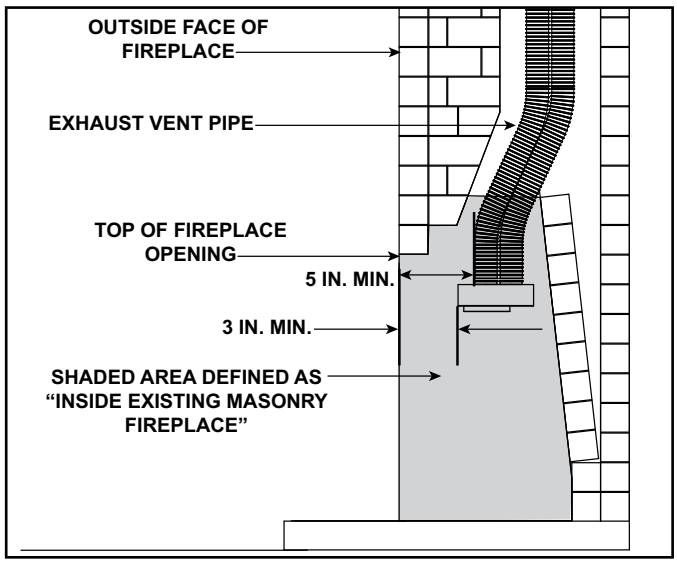


Figure 4.28 Existing Fireplace DV-46DVA-GCL Clearance Requirements

Clearances to Combustibles:

Refer to Section 3 and Section 10 for clearances to the appliance, mantel, mantel legs and wall projection.

Refer to Section 5 for pipe clearances to combustibles.

Termination Cap

For installation of termination cap see minimum vent heights for various pitched roofs. See Section 4.B.

Flue Damper

Fully lock the solid fuel fireplace's flue damper in the open position, OR completely remove it.

Venting Components

The LINK-DV30B is approved for use with the coaxial/colinear venting application. The LINK-DV30B kit includes:

- Two 30 foot sections of flexible vent pipe (3 inches Ø). One section is used to draw combustion air and the other section is used to expel exhaust gases.
- One vertical termination cap.

CAUTION! DO NOT use any flue restrictor when venting with the DV-46DVA-GCL adapter and LINK-DV30B kit. *This could result in poor flame appearance, sooting, pilot malfunction, or overheating.*

Connecting the DV-46DVA-GCL Adapter to Appliance

WARNING! Risk of Fire, Explosion or Asphyxiation! *Do NOT connect this gas appliance to a chimney flue serving a separate solid fuel or gas burning appliance.*

- *Could impair safe operation of this appliance or other appliances connected to the flue.*
- *Vent this appliance directly outside.*
- *Use separate vent system for this appliance.*

Top Vent

- Remove top seal cap and insulation if equipped. See Section 6, “Appliance Preparation.” Attach the DV-46DVA-GCL adapter to the appliance starting collar with 3-1/2 in. self-tapping screws. See Figure 4.29.

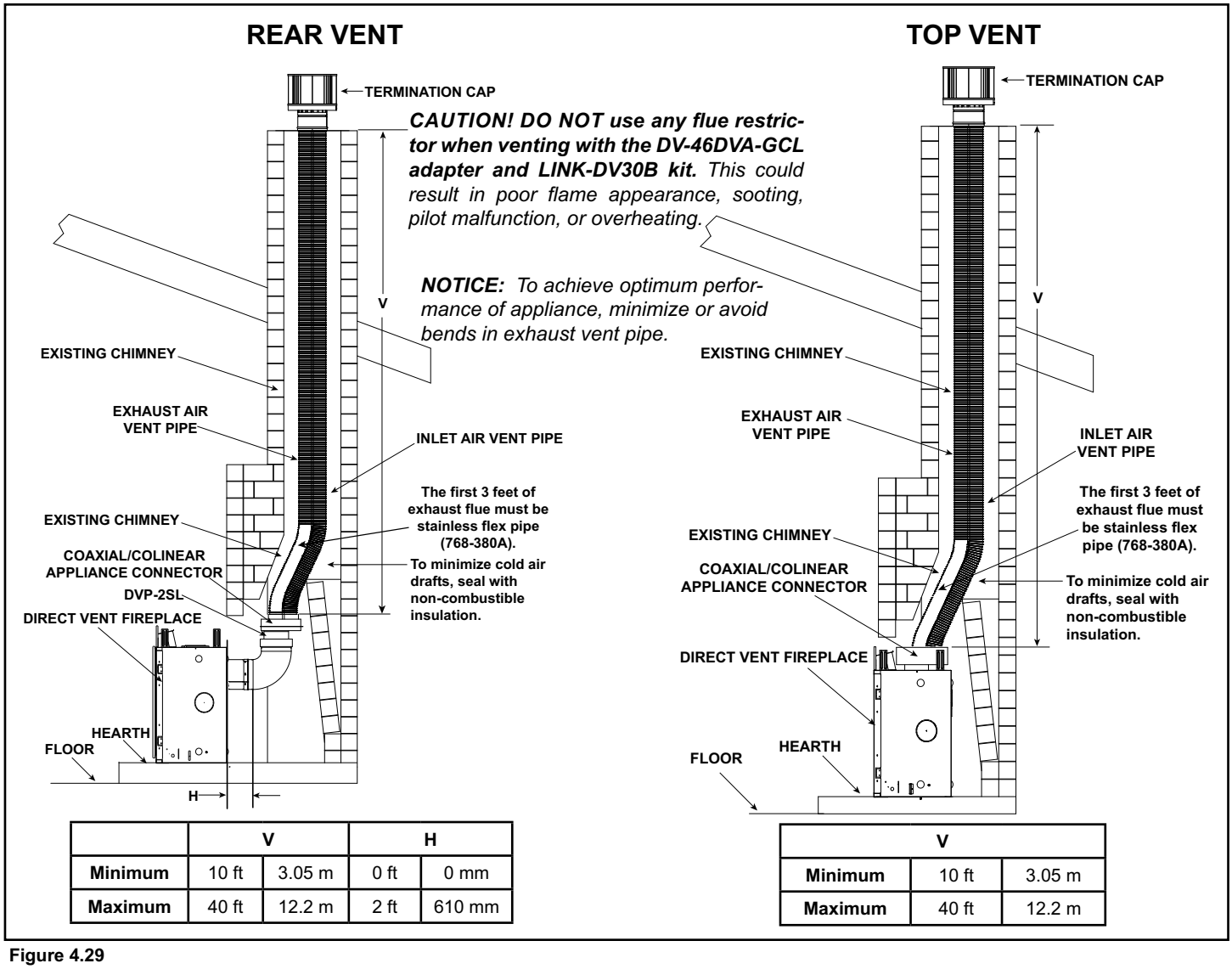
Rear Vent

- Remove the rear seal cap and insulation if equipped. Connect the DVP-2SL adapter to the vertically positioned elbow. Follow installation instructions included with DVP-2SL kit. Secure DV-46DVA-GCL adapter to DVP-2SL with 3-1/2 in. self-tapping screws. See Figure 4.29.

Connecting the LINK-DV30B to the DV-46DVA-GCL adapter

- Insert the two sections of flexible vent pipe down the existing chimney.
- Attach one 3 ft section of stainless steel flex pipe to the exhaust collar on top of the DV-46DVA-GCL adapter with three screws.
- Attach one section of flexible vent pipe to the 3 ft stainless steel flex pipe with three self-tapping screws.
- Attach one section of flexible vent pipe to the inlet collar on top of the DV-46DVA-GCL adapter with three self-tapping screws.
- To minimize cold air drafts, seal around the flex vents at the damper inside the chimney with non-combustible unfaced fiberglass or rock wool insulation.

The DV-46DVA-GCL adapter must be recessed into existing masonry fireplace. This measurement is taken from the top of the fireplace opening. See Table 1 and Figure 4.28.



	V		H	
Minimum	10 ft	3.05 m	0 ft	0 mm
Maximum	40 ft	12.2 m	2 ft	610 mm

V		
Minimum	10 ft	3.05 m
Maximum	40 ft	12.2 m

Figure 4.29

5 Vent Clearances and Vent Framing

A. Vent Clearances to Combustibles

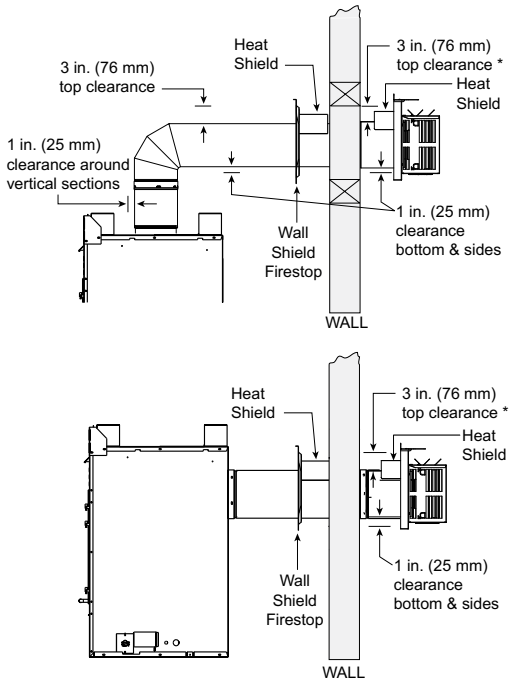
WARNING! Risk of Fire! *Maintain air space clearance to vent.* ***DO NOT*** *pack insulation or other combustibles:*

- *Between ceiling firestops*
- *Between wall shield firestops*
- *Around vent system*

Failure to keep insulation or other material away from vent pipe could cause overheating and fire.

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm).
- **DVP heat shield** - designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.
- If wall thickness is less than 4 in. the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. a DVP-HSM-B will be required.
- **SLP heat shield** - designed to be used on a wall 4-3/8 in. to 7-5/8 in. (111 mm to 194 mm thick).
- If wall thickness is less than 4-3/8 the existing heat shields must be field trimmed. If wall thickness is greater than 7-5/8 in. a DVP-HSM-B will be required.

(DVP-SLP Pipe Shown)



* When using SLP pipe, minimum clearances from the vent pipe to combustible materials at inside wall firestops are:
Top: 2-1/2 in. (64 mm)
Bottom: 1/2 in. (13 mm)
Sides: 1 in. (25 mm)

➔ **Figure 5.1 Horizontal Venting Clearances To Combustible Materials**

B. Wall Penetration Framing/Firestops

Combustible Wall Penetration

Whenever a combustible wall is penetrated, you must frame a hole for the wall shield firestop(s). The wall shield firestop maintains minimum clearances and prevents cold air infiltration.

These clearances are maintained by using an SLP-WS (SLP pipe) or DVP-WS (DVP pipe). See Figure 5.2 for framing instructions.

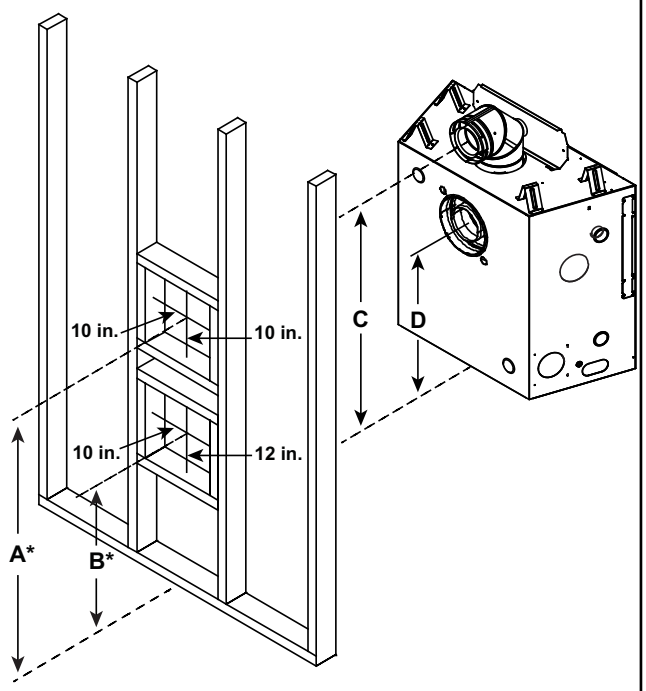
- For external walls: The wall shield firestop is included with the termination cap assembly.
- For internal walls: A wall shield firestop must be purchased and installed.
- The opening must be framed on all four sides using the same size framing materials as those used in the wall construction.
- SLP pipe - A wall shield firestop must be placed on each side of an interior wall. A minimum 1-1/2 in. (38 mm) overlap of attached heat shields must be maintained.
- DVP pipe - A wall shield firestop is required on one side only on interior walls. If your local inspector requires a wall shield firestop on both sides, then both wall shield firestops must have a heat shield (refer to Section 12.A.) attached to them.
- See Section 7.F. for information for regarding the installation of a horizontal termination cap.

Non-Combustible Wall Penetration

If the hole being penetrated is surrounded by non-combustible materials such as concrete, a hole with diameter one inch greater than the pipe is acceptable.

Whenever a non-combustible wall is penetrated, the wall shield firestop is only required on one side and no heat shield is necessary.

DO NOT PACK VENT FRAMING HOLE WITH INSULATION OR OTHER MATERIAL.



		A*	B*	C	D
QUARTZ32IFT	Inches	37-7/16	24-3/8	36-7/16	23-3/8
	Millimeters	951	619	926	594
QUARTZ36IFT	Inches	41	27-7/8	40	26-7/8
	Millimeters	1041	708	1016	683
QUARTZ42IFT	Inches	43	29-7/8	42	28-7/8
	Millimeters	1092	759	1067	733

* Shows center of vent framing hole for top or rear venting. The center of the hole is one (1) inch (25.4 mm) above the center of the horizontal vent pipe.

Note: Center of the horizontal vent pipe to the vertical measuring surface of a trap cap is 5 inches (127 mm)

Figure 5.2 Wall Penetration

C. Ceiling Firestop/Floor Penetration Framing

WARNING! Risk of Fire! DO NOT pack insulation around the vent. Maintain clearances to vent to prevent overheating.

A ceiling firestop **MUST** be used between floors and attics.

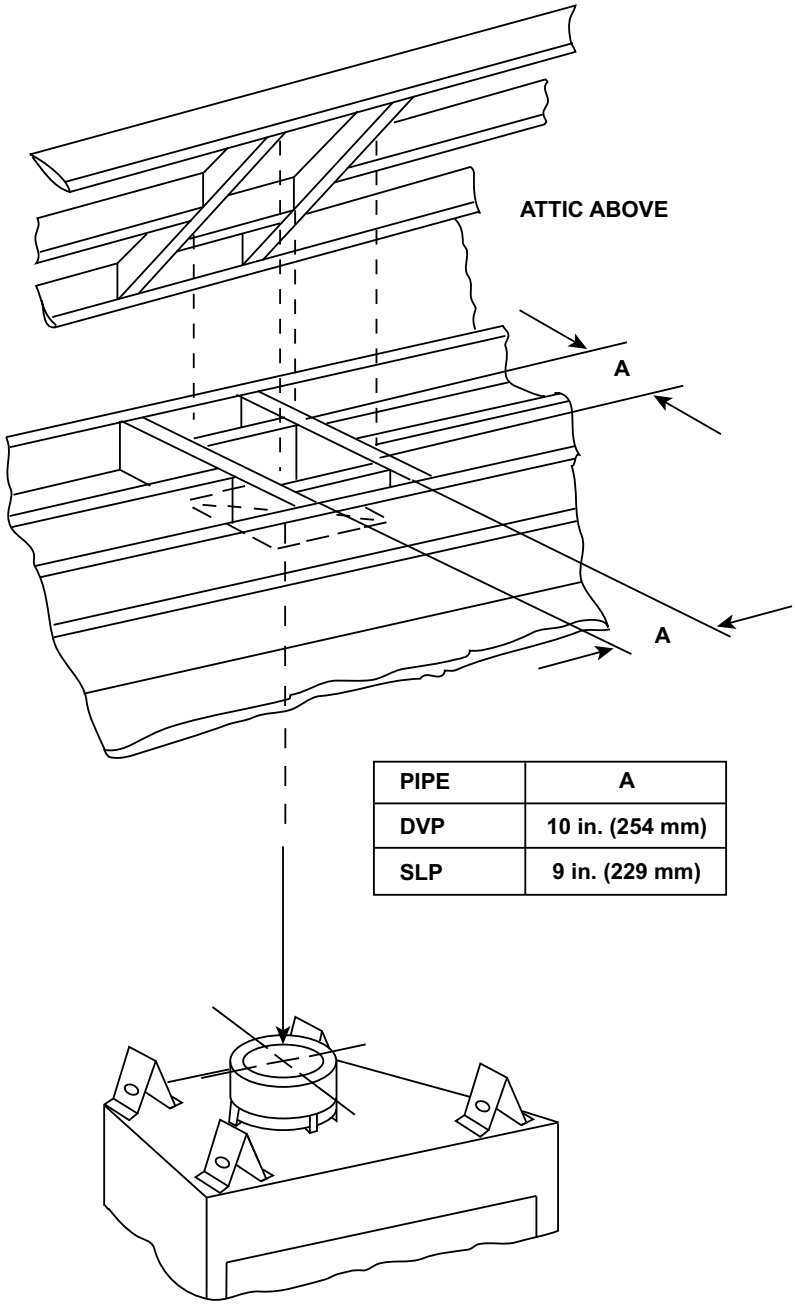
- **DVP pipe only** - Frame an opening 10 in. by 10 in. (254 mm by 254 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.3).
- **SLP pipe only** - Frame opening 9 in. x 9 in. (229 mm x 229 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.3).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- The ceiling firestop may be installed above or below the ceiling joists when installed with an attic insulation shield. It must be under joists between floors that are not insulated. Refer to Figure 5.4.
- Secure in place with nails or screws.

D. Install Attic Insulation Shield

WARNING! Fire Risk. *The use of an attic shield is required to prevent loose materials or insulation from contacting the vent causing overheating and a fire.*

The International Fuel Gas Code requires an attic shield constructed of 26 gauge minimum steel that extends at least 2 in. (51 mm) above insulation.

- Attic insulation shields must meet specified clearances to combustible materials and be secured in place.
- An attic insulation shield kit is available from Hearth & Home Technologies. Contact your dealer to order. Install attic insulation shield according to instructions included with kit.



PIPE	A
DVP	10 in. (254 mm)
SLP	9 in. (229 mm)

Figure 5.3 Installing Ceiling Firestop

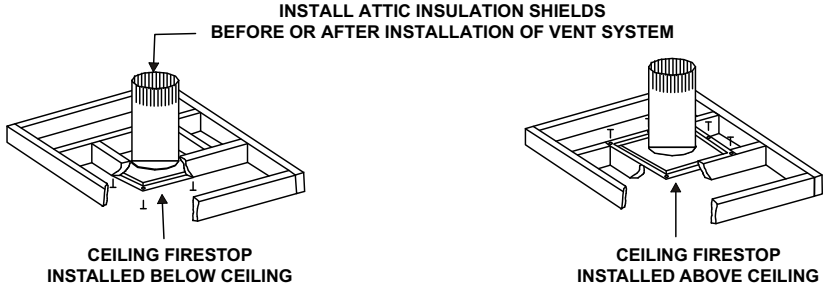


Figure 5.4 Installing the Attic Shield

6 Appliance Preparation

A. Vent Collar Preparation

CAUTION! Risk of Cuts, Abrasions or Flying Debris. *Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.*

NOTICE: *Once appliance is set up for top or rear venting, it CANNOT be changed at a later time.*

Note: Actual fireplace may look different than the fireplace shown in this section.

Top Vent

If a straight section of pipe is attached directly to the appliance starting collar, the elbow heat shield is not required. When installing a 90 degree elbow (SLP90) directly to the top of the appliance starting collar, the following additional provisions MUST be followed:

1. The elbow heat shield is not required if combustible materials, or combustible chases, are installed a minimum of 15 inches above the top of the appliance.
2. If the combustible materials are to be installed between 12 to 15 inches above the top of the appliance, the elbow heat shield is required. See Figure 6.2.

Top Vent - SLP-FLEX7 Series:

Top Vent - SLP-FLEX7 Series: (Canada only)

SLP-FLEX7 Series venting is approved for the QUARTZ32IFT and QUARTZ36IFT only. It is not approved for the QUARTZ42IFT.

SLP-FLEX7 Series venting requires a minimum initial vertical requirement (V_1). Refer to the SLP-FLEX7 Series installation instructions for the minimum initial vertical requirements. The following provisions must be followed:

1. The elbow heat shield is not required if combustible materials, or combustible chases, are installed a minimum of 6 inches above the top of the elbow. See Figure 6.2.
2. If the combustible materials are to be installed between 3 inches and 6 inches above the top of the elbow, the elbow heat shield is required. See Figure 6.2.

For approved vent configurations, refer to the installation instructions included with the SLP-FLEX7 collar adapter (SLP-FLEX7-A).

Refer to Section 10.C for additional clearance to combustibles requirements.

Figure 6.1 Elbow Heat Shield (Shown as Shipped)

WARNING! Risk of Fire! *Elbow heat shield must be installed if required. Overheating will occur.*

To Install Elbow Heat Shield:

1. Remove the elbow heat shield from the shipping position, shown in Figure 6.1, by removing screws.

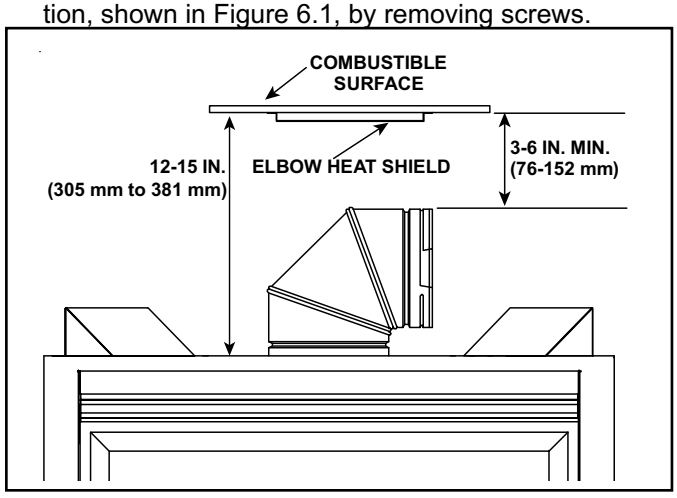


Figure 6.2 Elbow Heat Shield Installation Location

2. Fasten the shield in place using the four pilot holes. The shield should be oriented such that the 13 1/8 inch dimension (longest dimension) is running in the same direction the elbow is pointing. The shield should be centered directly above the elbow, and positioned so that it creates a 1/2 inch airspace between the shield and the combustible surface. See Figure 6.3.

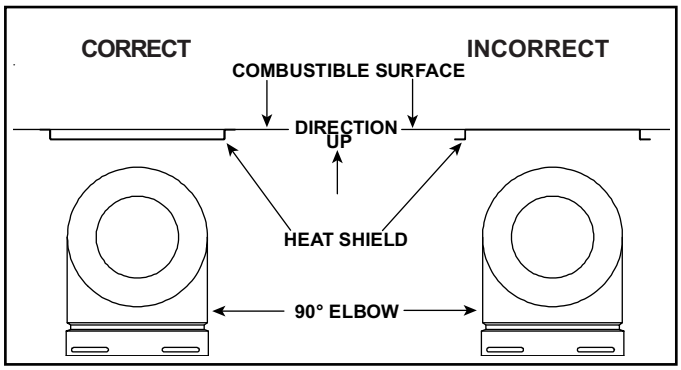


Figure 6.3

WARNING! Risk of Fire! *Do not remove heat shield. Elevated header temperatures may cause a fire.*

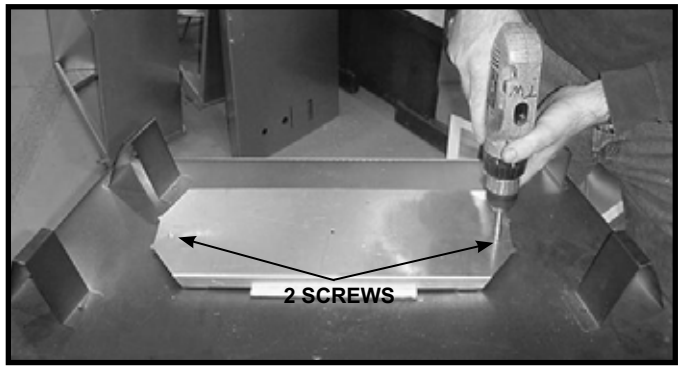


Figure 6.5 For top vent, remove the two screws holding the top heat shield in place. For rear vent, see Figures 6.12-6.16.

- If the combustible materials are not in place at the time of install the elbow heat shield may be screwed to the exhaust pipe. See Figure 6.4. Cut the tabs as shown and bend down. Secure the heat shield to the pipe maintaining 3" to 4" between the pipe and shield.
- Continue adding vent components, locking each succeeding component into place.
- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.
- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis. If an elbow does not end up in a locked position with the preceding component, attach with a minimum of two (2) sheet metal screws.

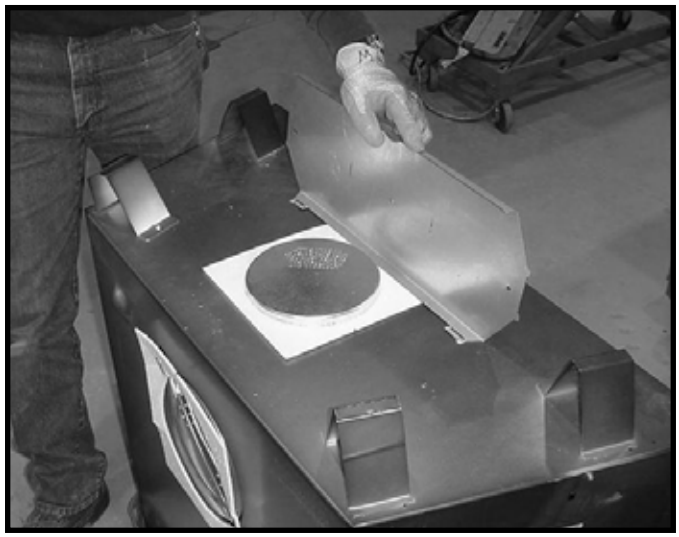


Figure 6.6 Rotate the top heat shield to the vertical position as shown above. The heat shield must remain in the vertical position.

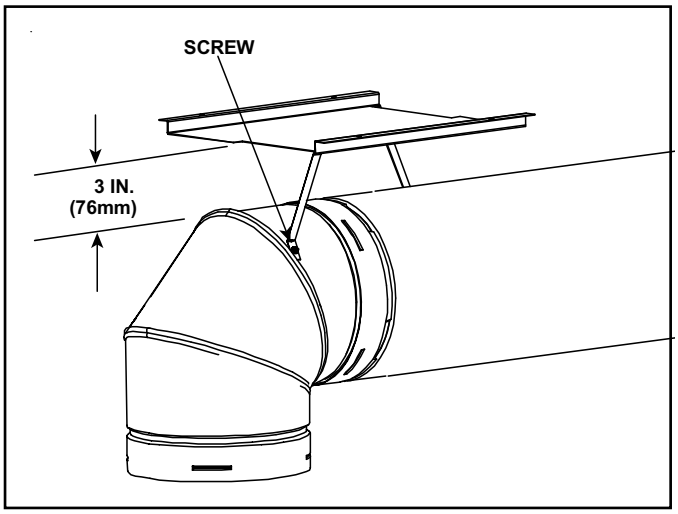


Figure 6.4 Elbow Heat Shield Installed

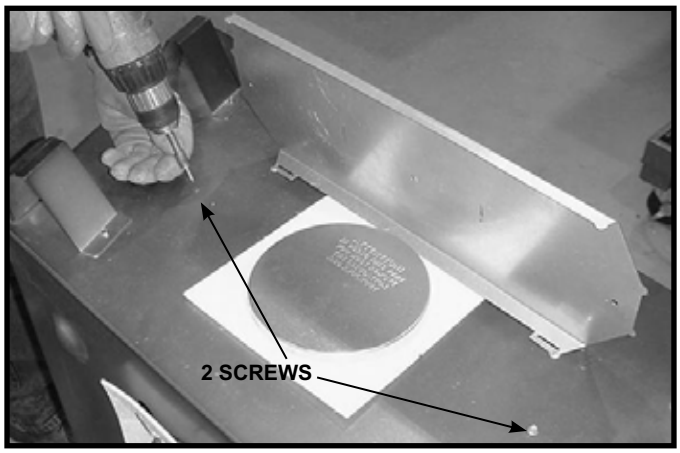


Figure 6.7 Replace the two screws as shown.

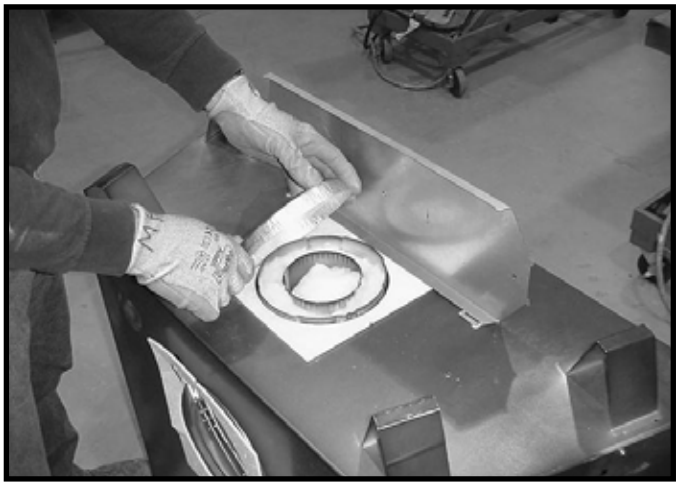


Figure 6.8 Remove the seal cap.

NOTICE: *Once the seal cap has been removed it CANNOT be reattached.*

Figure 6.9 Remove the insulation basket and white insulation from the center vent pipe.

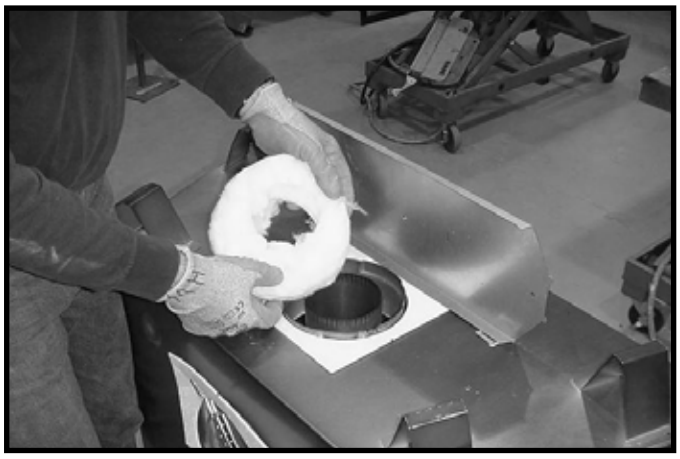


Figure 6.10 Remove the insulation from the outer vent pipe.

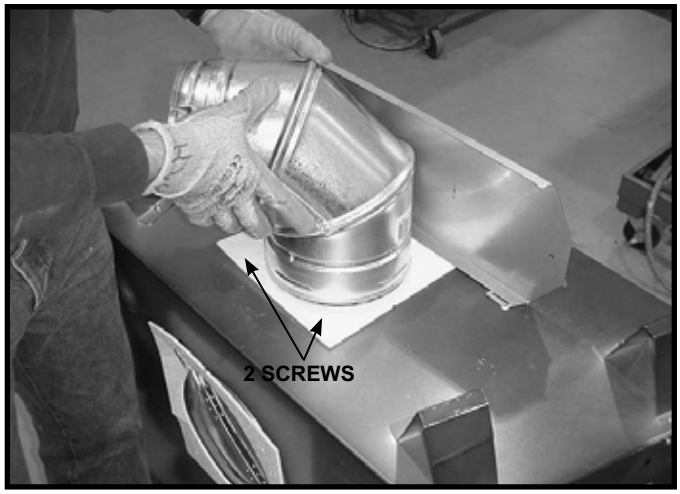


Figure 6.11 To attach the first section of vent pipe, make sure to use the fiberglass gasket to seal between the first vent component and the outer fireplace wrap. Use 2 self tapping screws to secure the gasket to the outer wrap.

Rear Vent

NOTICE: *Once appliance is set up for top or rear venting, it CANNOT be changed at a later time.*

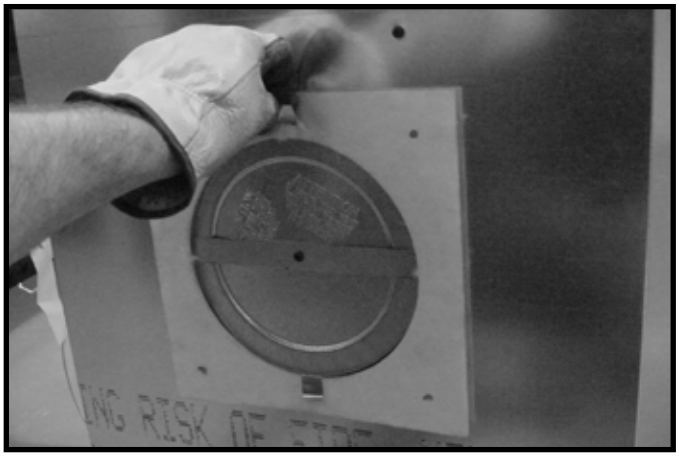


Figure 6.12 (Generic Fireplace Shown) Fold the tabs toward the center of the fire plug (90º) and remove the insulation gasket.

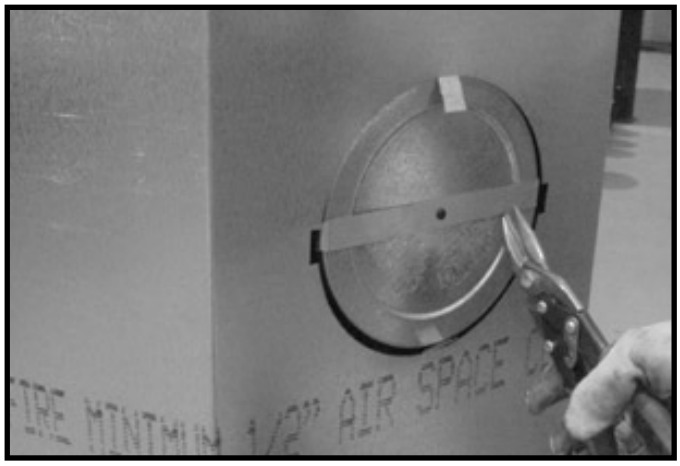


Figure 6.13 (Generic Fireplace Shown) Cut the metal retaining band and fold the sides out.

Figure 6.14 (Generic Fireplace Shown) Fold the center parts of the retaining band out and use to remove the seal cap.

NOTICE: *Once the seal cap has been removed it CANNOT be reattached.*

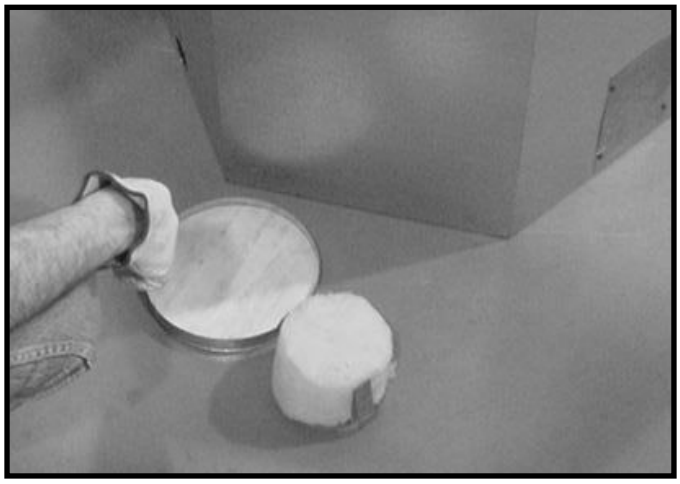


Figure 6.15 (Generic Fireplace Shown) Discard the seal cap, remove and discard the insulation basket.

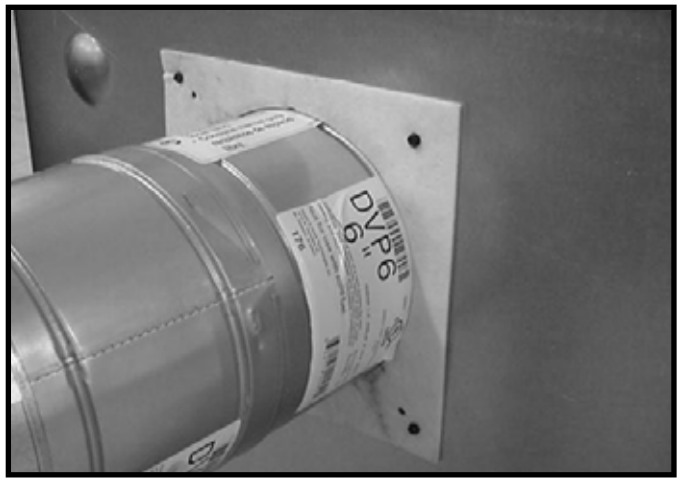


Figure 6.16 (Generic Fireplace Shown) Attach the first vent section (it will snap into place). Slide the insulation gasket onto the vent section, up against the appliance and over the tabs. Use four self-tapping screws to secure gasket to outer wrap.

B. Prepare For Heat Management

NOTICE: *Additional clearances are required for heat management systems installations. Provisions must be made in advance to ensure fit within the framing.*

- Heat management systems include Heat-Zone®- Gas and Heat-Out-Gas Contact your dealer for information.
- Locate the heat management ports on the left and right sides of the appliance. One or two Heat-Zones® or one Heat-Out-Gas kit may be installed. See Figure 6.17. Remove the knockouts from the appliance with a tin snips.
- Center the duct collar around the exposed hole and attach it to the appliance with 3 screws. Note: Do this BEFORE final positioning of the appliance.
- Determine the location for the air register/fan housing assembly.

Reference the instructions included in the heat management kit for the remaining installation steps.

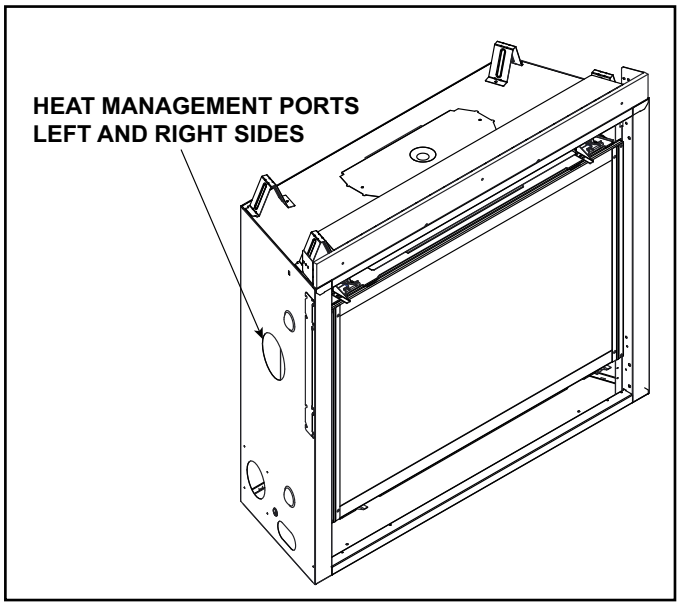


Figure 6.17 Heat Management Port Locations

C. Securing and Leveling the Appliance

⚠ WARNING

Risk of Fire!

Prevent contact with:

- *Sagging or loose insulation*
- *Insulation backing or plastic*
- *Framing and other combustible materials*

DO NOT remove standoffs or *notch the framing around the appliance standoffs.*

Failure to maintain air space clearance could cause overheating and fire.

Block openings into the chase to prevent entry of blown-in insulation. Make sure insulation and other materials are secured.

The diagram shows how to properly position and secure the appliance. See Figure 6.18. Nailing tabs are provided to secure the appliance to the framing members.

- Bend out nailing tabs on each side.
- Place the appliance into position.
- Keep nailing tabs flush with the framing.
- Level the appliance from side to side and front to back.
- Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.
- Place a level on top, sides and bottom as shown in Figure 6.18.
- Secure the appliance to the framing by using nails or screws through the nailing tabs. Use a minimum of one fastener per nailing tab.
- Optional: Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

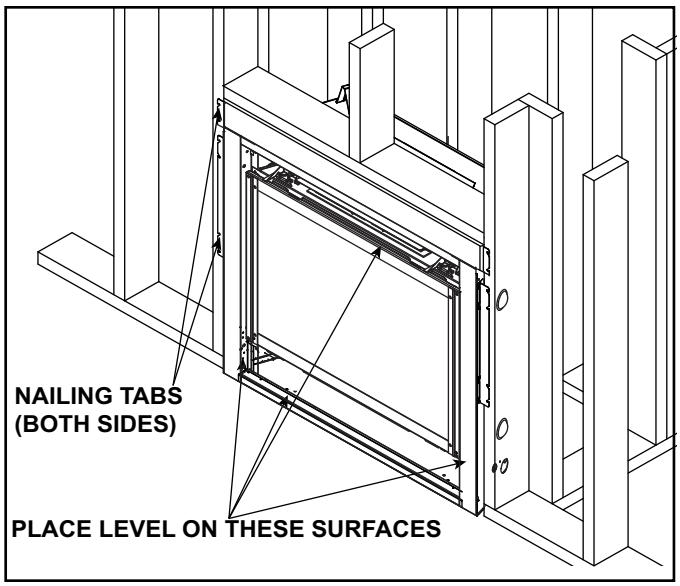


Figure 6.18 Proper Positioning and Securing of an Appliance

7 Venting

A. Assemble Vent Sections

Assemble Vent Sections (DVP Only)

WARNING! Risk of Fire or Explosion! *Vent sections MUST be installed correctly. Improperly installed vent sections could leak or cause appliance to overheat.*

Attach Vent to the Firebox Assembly

Note: The end of the pipe sections with the lanced tabs will face toward the appliance.

Attach the first pipe section to the starting collar:

- Lanced pipe end of the starting collar.
- Inner pipe over inner collar.
- Push the pipe section until all lanced tabs snap in place.
- Lightly tug on pipe to confirm it has locked.

Requirement for Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications

WARNING! Risk of Fire or Explosion! DO NOT *break silicone seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent could leak.*

All outer pipe joints must be sealed using one of the methods below, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections. See Figure 7.1 **OR**

  Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**

  Apply aluminum foil tape (300 ºF minimum continuous exposure rating) to the outside of connecting joint after joining sections. On horizontal pipe runs, it is recommended that the tape seam is positioned on the bottom side of the vent pipe.
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

Assemble Pipe Sections

Per Figure 7.2:

- Start the inner pipe on the lanced end of section A into the flared end of section B.
- Start the outer pipe of section A over the outer pipe of section B.
- Once both vents sections are started, push firmly until all lanced tabs lock into place.
- Lightly tug on the pipe to confirm the tabs have locked.

It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

For 90º and 45º elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1/2 in. (13 mm). If predrilling screw holes, **DO NOT** penetrate inner pipe.

Figure 7.1 High Temperature Silicone Sealant

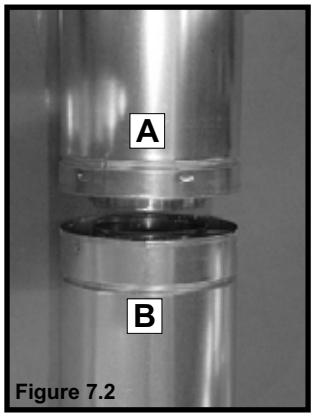


Figure 7.2

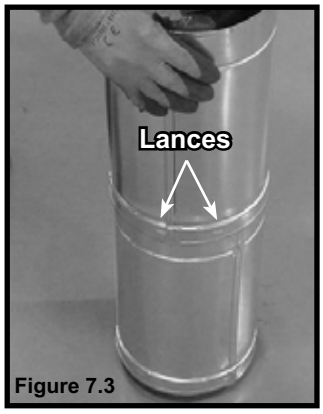
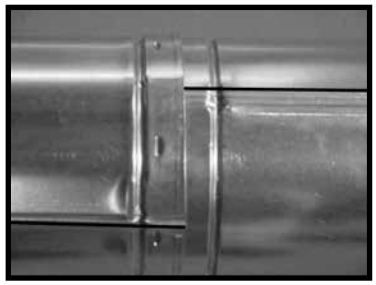
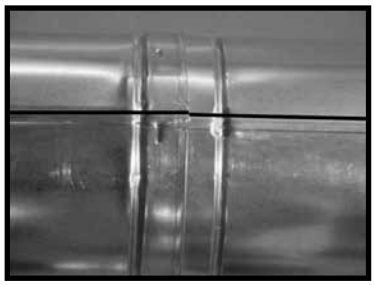


Figure 7.3

Note: Make sure that the seams are not aligned to prevent unintentional disconnection.



CORRECT



INCORRECT

Figure 7.4 Seams

NOTICE: *When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant (300 ºF minimum continuous exposure rating).*

- *Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections.*
- *Only outer pipes are sealed, sealing the inner flue is not required.*
- *All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.*

Assemble Vent Sections (SLP Only)

WARNING! Risk of Fire or Explosion! *Vent sections MUST be installed correctly. Improperly installed vent sections could leak or cause appliance to overheat.*

To attach the first vent component to the starting collars of the appliance:

- Lock the vent components into place by sliding the pipe section onto the collar.
- Align the seam of the pipe and seam of collar to allow engagement. Rotate the vent component to lock into place. Use this procedure for all vent components. See Figure 7.5.
- Slide the gasket over the first vent section and place it flush to the appliance. This will prevent cold air infiltration. Caulk with a minimum of 300 ºF continuous exposure rating may be used to hold the part in place.
- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component.

It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

Requirement for Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications

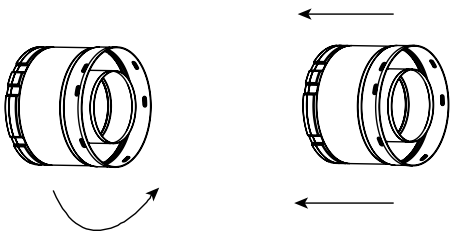
All outer pipe joints must be sealed using one of the methods below, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections. See Figure 7.1 **OR**

  Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**

  Apply aluminum foil tape (300 ºF minimum continuous exposure rating) to the outside of connecting joint after joining sections. On horizontal pipe runs, it is recommended that the tape seam is positioned on the bottom side of the vent pipe.
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

WARNING! Risk of Fire or Explosion! DO NOT *break silicone seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent could leak.*



Note: Align seams to engage pipe, then rotate counterclockwise to lock

Figure 7.5 Adding Venting Components

NOTICE: *When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant (300 ºF minimum continuous exposure rating).*

- *Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections.*
- *Only outer pipes are sealed, sealing the inner flue is not required.*
- *All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.*

B. Assemble Slip Sections

- Slide the inner flue of the slip section into the inner flue of the pipe section and the outer flue of the slip section over the outer flue of the pipe section. See Figure 7.6.
- Slide together to the desired length.

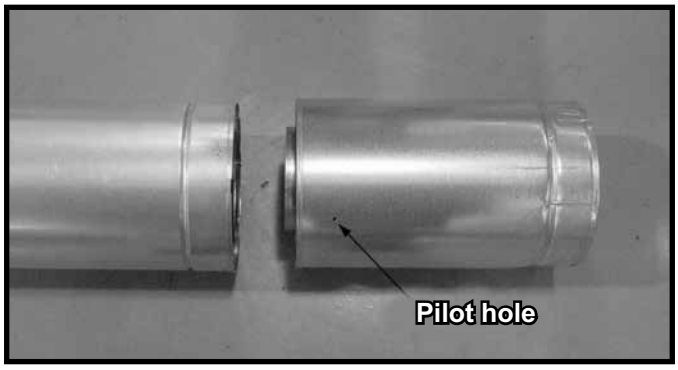


Figure 7.6 Slip Section Pilot Holes

- Maintain a 1-1/2 in. (38 mm) overlap between the slip section and the pipe section.
- Secure the pipe and slip section with two screws no longer than 1/2 in. (13 mm), using the pilot holes in the slip section. See Figure 7.7.

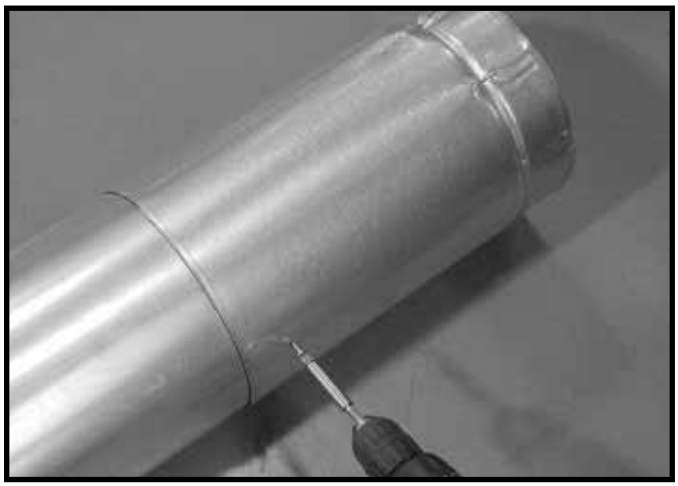


Figure 7.7 Screws into Slip Section

- Continue adding pipe as necessary following instructions in “Assembling Pipe Sections.”

NOTICE: *If slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.*

NOTICE: *When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant (300 ºF minimum continuous exposure rating).*

- *Apply a bead of silicone sealant (300 ºF minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections.*
- *Only outer pipes are sealed, sealing the inner flue is not required.*
- *All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.*

C. Secure the Vent Sections

WARNING! Risk of Fire, Explosion or Asphyxiation! *Improper support could allow vent to sag and separate. Use vent run supports and connect vent sections per installation instructions.* ***DO NOT*** *allow vent to sag below connection point to appliance.*

- Vertical runs originating off the top of the appliance, with no offsets, must be supported every 8 feet (2.44 m) after the maximum allowed 25 feet (7.62 m) of unsupported rise.
- Vertical runs originating off the rear of the appliance, or after any elbow, must be supported every 8 feet (2.44 m).
- Horizontal runs must be supported every 5 feet (1.52 m).
- Vent supports or plumbers strap (spaced 120º apart) may be used to support vent sections. See Figures 7.8 and 7.9.
- Wall shield firestops may be used to provide horizontal support to vent sections.
- SLP ceiling firestops have tabs that may be used to provide vertical support.

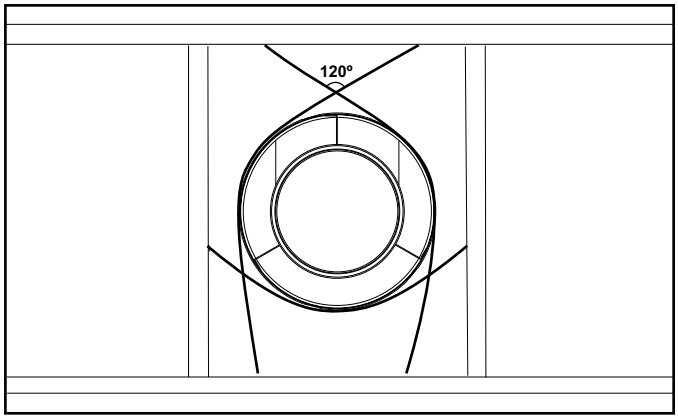


Figure 7.8 Securing Vertical Pipe Sections

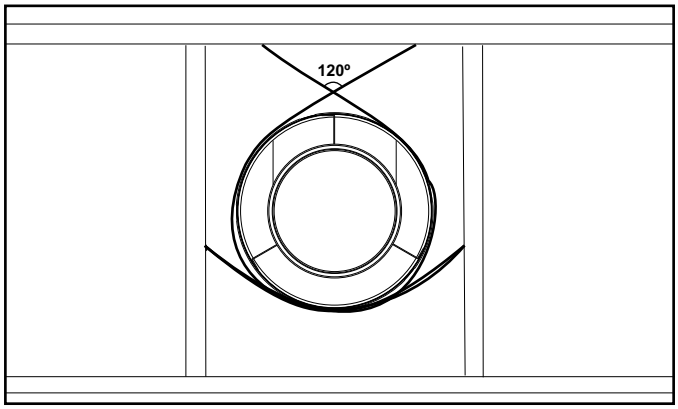


Figure 7.9 Securing Horizontal Pipe Sections

D. Disassemble Vent Sections

- Rotate either section (see Figure 7.10) so the seams on both pipe sections are aligned as shown in Figure 7.11.
- Pull carefully to separate the pieces of pipe.

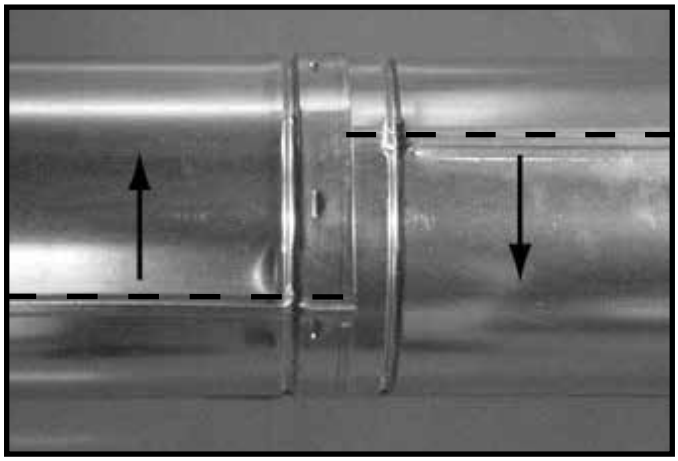


Figure 7.10 Rotate Seams for Disassembly

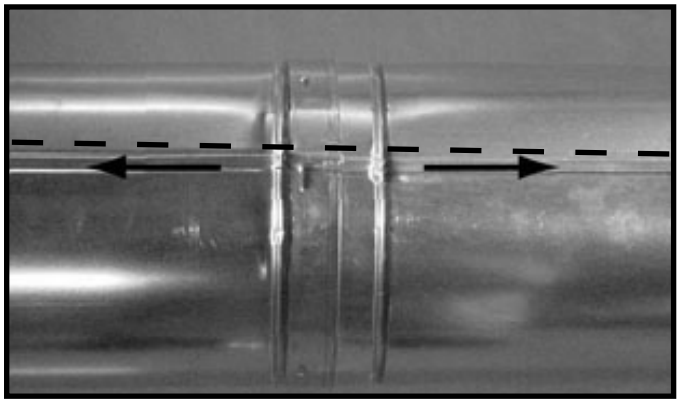


Figure 7.11 Align and Disassemble Vent Sections

E. Vertical Termination Requirements

Install and Seal Metal Roof Flashing

- See minimum vent heights for various pitched roofs (Section 4, Figure 4.1) to determine the length of pipe to extend through the roof.
- Slide the roof flashing over the pipe sections extending through the roof as shown in Figure 7.12.
- Use an elastomeric or silicone sealant with a minimum of 150 ºF temperature rating to seal the metal roof flashing.

Note: When installing a silicone or EPDM pipe flashing boot on a metal roof, it is recommended to put a bead of 100% silicone sealant where the boot contacts the vent pipe to prevent the entry of water. Follow the manufacturer's recommendations when installing the boot.

NOTICE: *Failure to properly-seal the roof flashing and pipe seams could permit entry of water.*

- Seal the gap between the roof flashing and the outside diameter of the pipe.
- Seal the perimeter of the flashing where it contacts the roof surface. See Figure 7.12.
- Seal the exposed pipe section seams that are located above the roof.

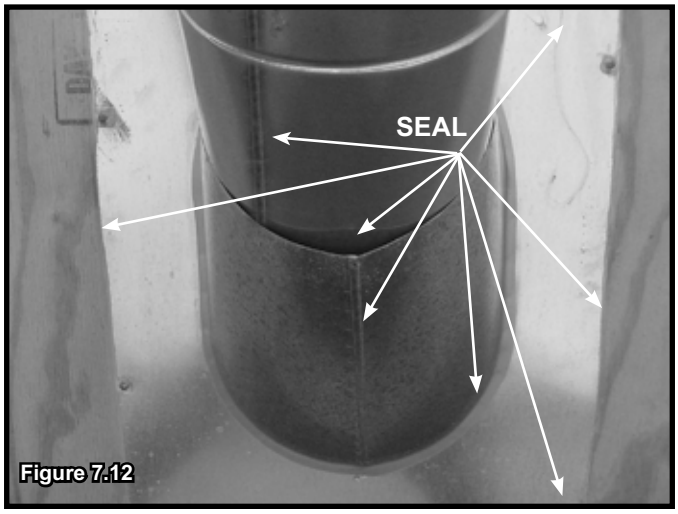


Figure 7.12

Assemble and Install Storm Collar

CAUTION! Risk of Cuts, Abrasions or Flying Debris. *Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.*

- Slide the storm collar onto the exposed pipe section and align brackets.
- Insert a bolt (provided) through the brackets and install nut. Do not completely tighten.


Figure 7.13 Insert Bolt into Brackets

- Slide the assembled storm collar down the pipe section until it rests on the roof flashing. See Figure 7.13.
- Tighten nut and make sure the collar is tight against the pipe section.
- Seal around the top of the storm collar. See Figure 7.14.

Install Vertical Termination Cap

- Attach the vertical termination cap by sliding the inner collar of the cap into the inner flue of the pipe section while placing the outer collar of the cap over the outer flue of the pipe section.
- Secure the cap by driving three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe. See Figure 7.14.

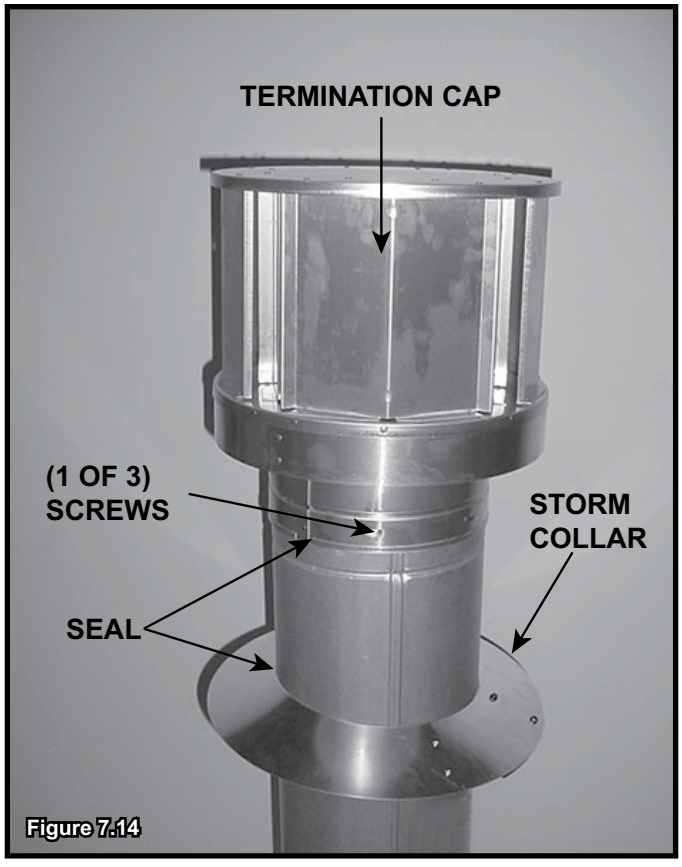


Figure 7.14

F. Horizontal Termination Requirements

Heat Shield Requirements for Horizontal Termination

WARNING! Risk of Fire! *To prevent overheating and fire, heat shields must extend through the entire wall thickness.*

- ***DO NOT*** *remove the heat shields attached to the wall shield firestop and the horizontal termination cap (shown in Figure 7.15).*
- *Heat shields must overlap 1-1/2 in. (38 mm) minimum.*

There are two sections of the heat shield. One section is factory-attached to the wall shield firestop. The other section is factory-attached to the cap. See Figure 7.15.

If the wall thickness does not allow the required 1-1/2 in. (38 mm) heat shield overlap when installed, an extended heat shield must be used.

- If the wall thickness is less than 4 in./102 mm (DVP) or 4-3/8 in./ 111 mm (SLP), the heat shields on the cap and wall shield firestop must be trimmed. A minimum 1-1/2 in. (38 mm) overlap MUST be maintained.
- Use an extended heat shield if the finished wall thickness is greater than 7-1/4 in. (184 mm).
- The extended heat shield may need to be cut to length maintaining sufficient length for a 1-1/2 in. (38 mm) overlap between heat shields.
- Attach the extended heat shield to either of the existing heat shields using the screws supplied with the extended heat shield. Refer to vent components diagrams in the back of this manual.
- Rest the small leg on the extended heat shield on top of the pipe section to properly space it from the pipe section.

Important Notice: Heat shields may <u>not</u> be field constructed.

Install Horizontal Termination Cap (DVP and SLP Pipe)

WARNING! Risk of Fire! *The telescoping flue section of the termination cap MUST be used when connecting vent.*

- *1-1/2 (38 mm) minimum overlap of flue telescoping section is required.*

Failure to maintain overlap could cause overheating and fire.

- Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.
- Flash and seal as appropriate for siding material at outside edges of cap.
- When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes and refer to Section 4 of this manual.

CAUTION! Risk of Burns! *Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.*

NOTICE: *For certain exposures which require superior resistance to wind-driven rain penetration, a flashing kit and HRC caps are available. When penetrating a brick wall, a brick extension kit is available for framing the brick.*

Note: When using termination caps with factory-supplied heat shield attached, no additional wall shield firestop is required on the exterior side of a combustible wall.

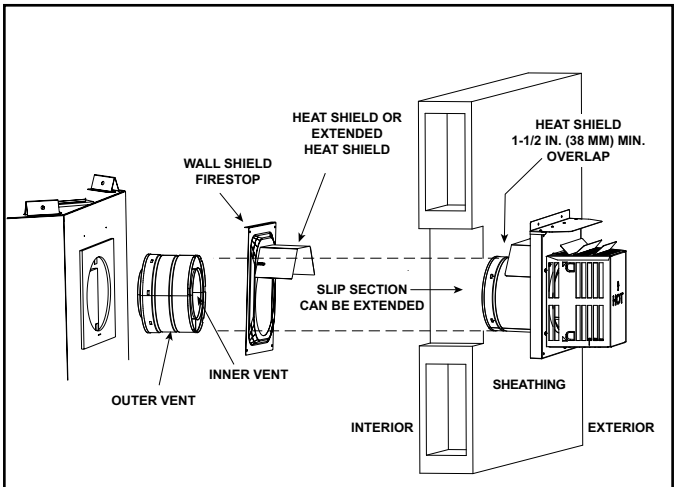


Figure 7.15 Venting Through the Wall

8 Electrical Information

A. General Information

WARNING! Risk of Shock! DO NOT *wire 110-120 VAC to the ignition module or to the appliance wall switch. (IPI)*

Incorrect wiring will damage controls.

NOTICE: *This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with* **National Electric Code ANSI/NFPA 70-latest edition** *or the* **Canadian Electric Code CSA C22.1.**

- Wire the appliance circuit using a minimum 14-2 AWG with ground to unswitched 110-120 VAC. This is required for proper operation of the appliance (IntelliFire® ignition).
- A 110-120 VAC circuit for this product must be protected with ground-fault circuit interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.
- Low voltage and 110-120 VAC voltage cannot be shared within the same wall box.
- In some instances, the spark ignition of the fireplace may cause intermittent, non-damaging, interference during the lighting sequence with a TV plugged into the same circuit. It is recommended that the fireplace and TV use different circuits to mitigate the interference potential. If interference is occurring on the same circuit, the use of surge protectors may help alleviate the interference.

Junction Box Wiring

If the box is being wired from the **INSIDE** of the appliance:

- Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell. See Figure 8.1.
- Pull the electrical wires from outside the appliance through the opening into the valve compartment and secure wires with a Romex connector. See Figure 8.1.
- Make all necessary wire connections to the junction box/receptacle and reattach the junction box/receptacle to the outer shell.

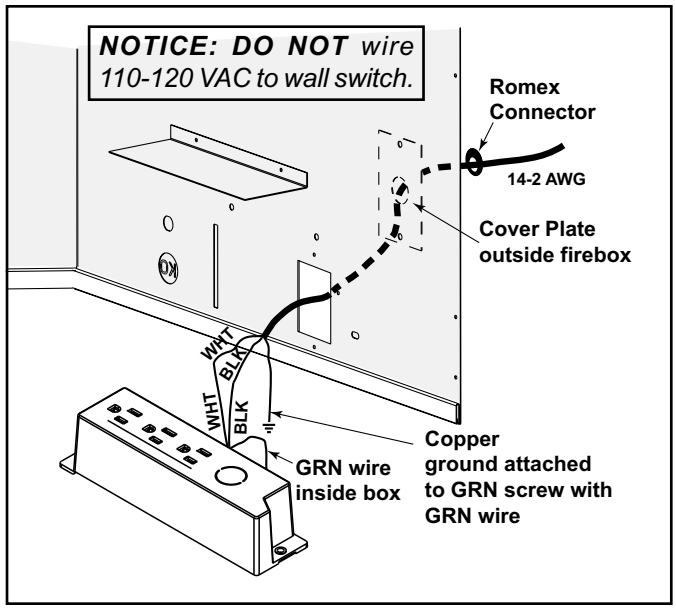


Figure 8.1 Junction Box Detail

Accessories Requirements

- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.

Wiring for optional Hearth & Home Technologies approved accessories should be done now to avoid reconstruction. Follow instructions that come with those accessories.

Electrical Service and Repair

WARNING! Risk of Shock! *Label all wires prior to disconnection when servicing controls. Wiring errors could cause improper and dangerous operation. Verify proper operation after servicing.*

WARNING! Risk of Shock! *Replace damaged wire with type 105º C rated wire. Wire must have high temperature insulation.*

Component Tray

The electrical components are installed on the component tray. If it becomes necessary to remove the components, use the information in Figure 8.2 to remove them and reinstall them correctly on the component tray.

The IFT-ECM is held in position by two placement tabs (front and rear) on the component tray. To remove the IFT-ECM, bend the front or rear placement tab back slightly and tip the IFT-ECM to disengage it from the placement tabs. To reinstall the IFT-ECM on the component tray, engage the front placement tab first.

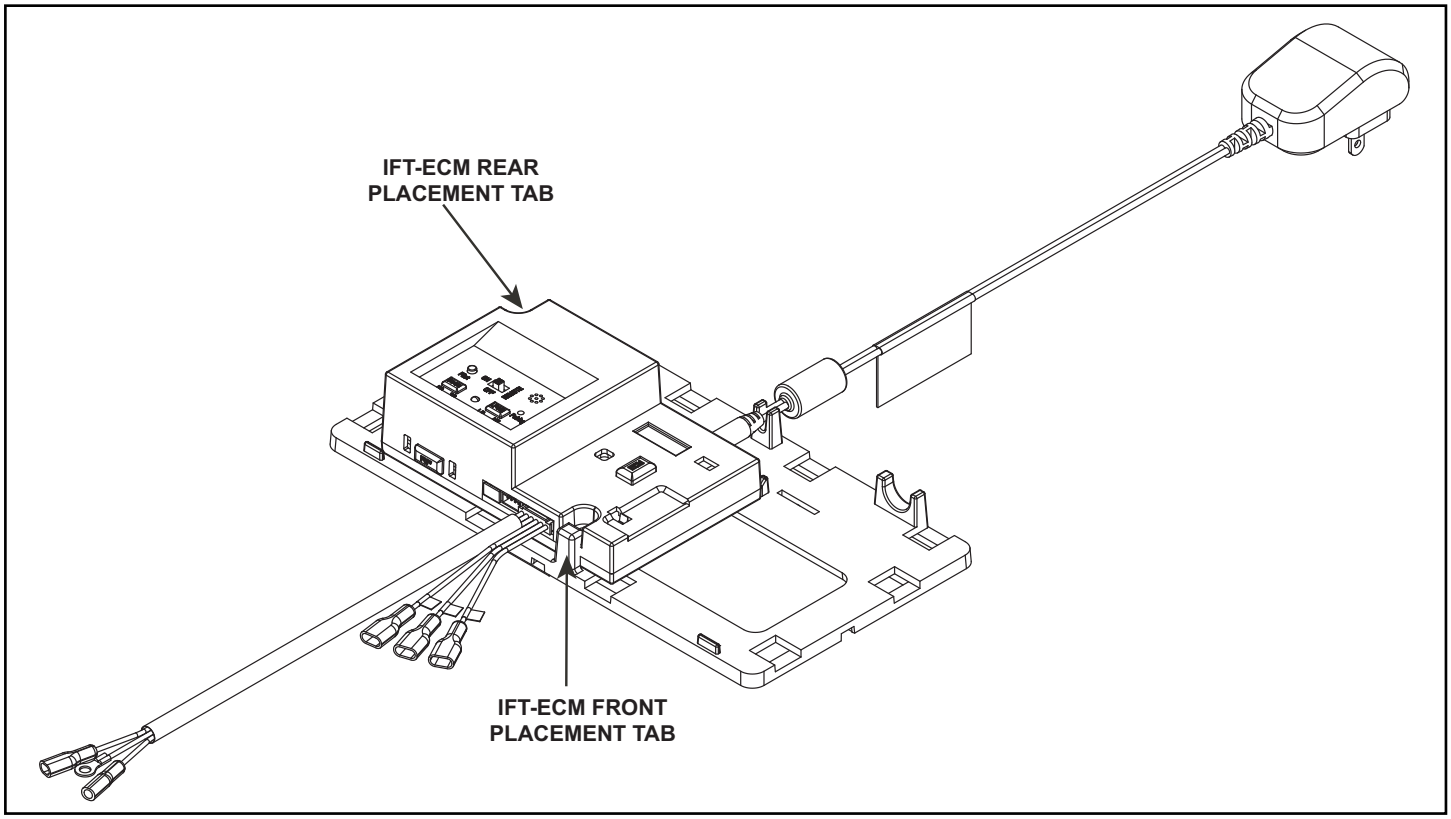


Figure 8.2 Electrical Component Tray

B. Wiring Requirements

IntelliFire Touch® Ignition System Wiring

- Wire the appliance junction box to 110-120 VAC for proper operation of the appliance.

WARNING! Risk of Shock or Explosion! DO NOT *wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.*

- Refer to Figure 8.3 IntelliFire Touch (IFT) Wiring Diagram.
- This appliance is equipped with an IntelliFire control valve which operates on a 6 volt system.
- Plug the 6 volt transformer plug into the appliance junction box to supply power to the appliance OR install 4 AA cell batteries (not included) into the battery pack before use.

NOTICE: *Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Batteries tend to corrode over time. When using batteries as a power source, the* 6 *volt transformer must be unplugged from the receptacle.*

Do not store batteries in the battery pack when the appliance is powered by the 6 volt transformer connected to permanent electrical service.

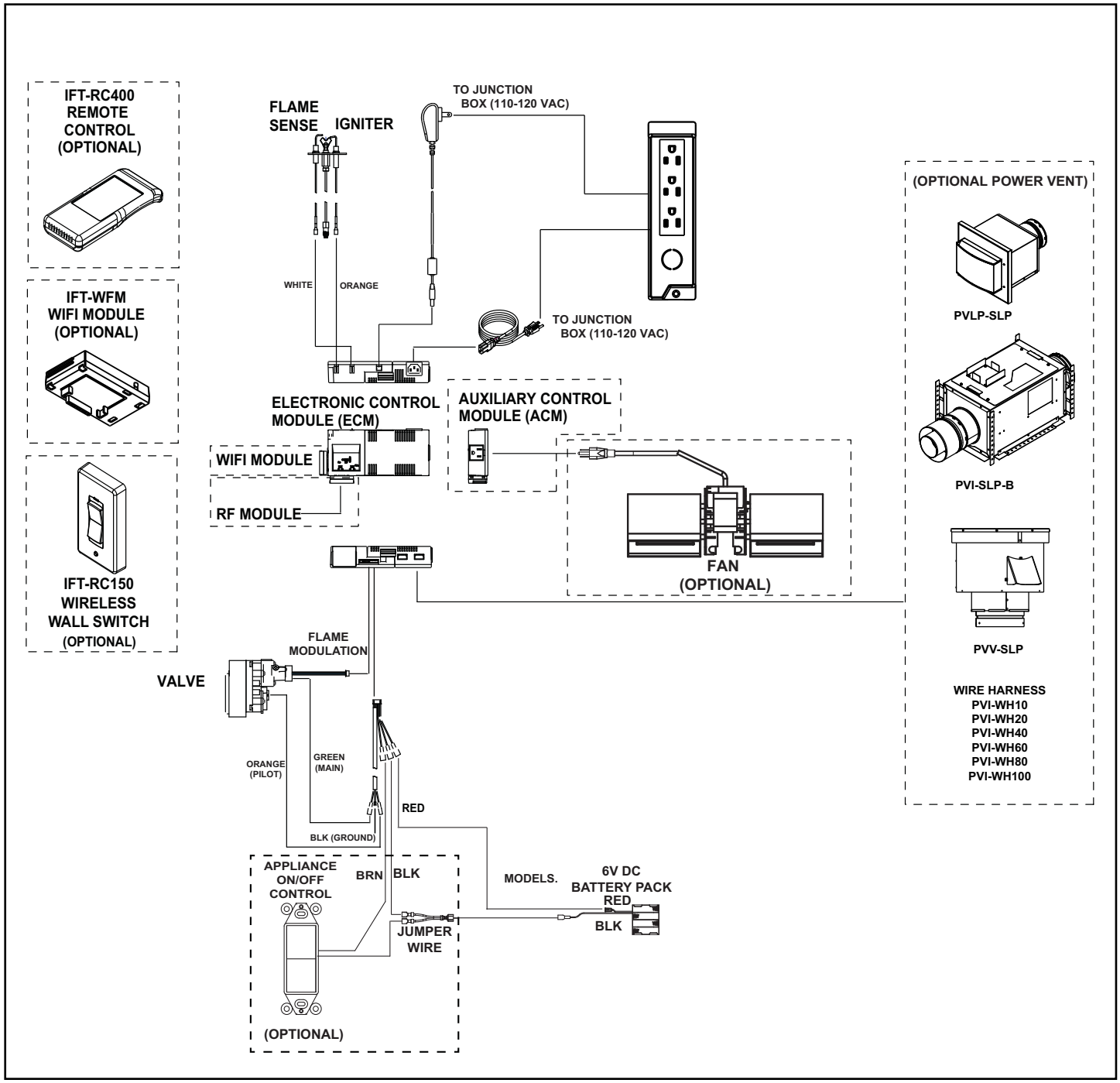


Figure 8.3 IntelliFire Touch Ignition Wiring Diagram

Temperature Sensor Wiring for Fan (Optional)

If the fan will not be installed for operation with a wall switch, the temperature sensor will need to be installed. See Figure 8.4 for location of the temperature sensor and fan control.

- The power supply for the appliance must be brought into the junction box.
- Install rheostat in location as seen in Figure 8.4.
- Connect temperature sensor switch wire and rheostat switch wires to junction box as shown in Figure 8.5.

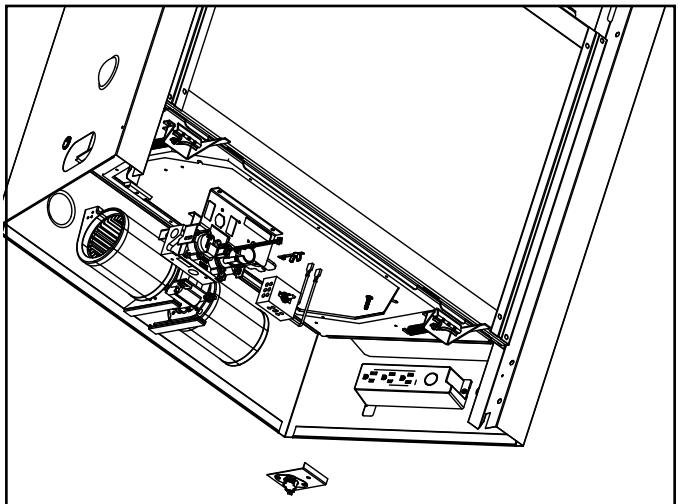


Figure 8.4 Fan Wiring with Rheostat

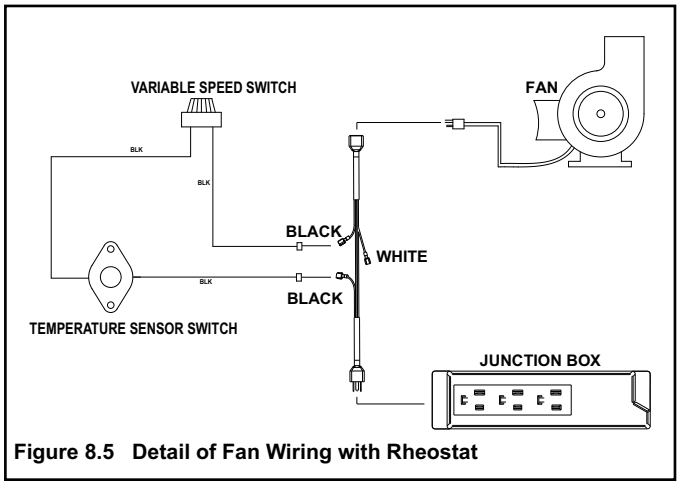


Figure 8.5 Detail of Fan Wiring with Rheostat

9 Gas Information

A. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

B. Gas Pressure

⚠ WARNING

Fire Risk.

Risk of Fire! Risk of Explosion!

Incorrect pressure will damage valve.

- Isolate gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.
- Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig.

- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z223.1 National Fuel Gas Code in the USA and CAN/CGA B149 in Canada.
- Pressure requirements when in operation are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	10.0 in. w.c.	13.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

Note: Have the gas supply line installed in accordance with local codes, if any. If not, follow ANSI Z223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

Note: A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

C. Gas Connection

- Refer to Section 3 for location of gas line access in appliance.
- Gas line may be run through knockout(s) provided.
- The gap between supply piping and gas access hole may be sealed with caulk or aluminum foil tape with a minimum of 300 ºF continuous exposure rating or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into valve compartment.
- Connect incoming gas line to the 1/2 in. (13 mm) NPT connection on manual shutoff valve.

WARNING! Risk of Fire or Explosion! *Support control when attaching pipe to prevent bending gas line.*

WARNING! Risk of Fire or Explosion! *Gas build-up during line purge could ignite.*

- *A small amount of air will be in the gas supply lines.*
- *Ensure adequate ventilation.*
- *Ensure there are no ignition sources such as sparks or open flames.*

Light the appliance. It will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

WARNING! Risk of Fire, Explosion or Asphyxiation! *Check all fittings and connections with a non-corrosive commercially available leak-check solution.* ***DO NOT*** *use open flame. Fittings and connections could have loosened during shipping and handling.*

D. High Altitude Installations

NOTICE: *If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.*

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m)above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

Check with your local gas utility to determine proper orifice size.

E. Air Shutter Setting

WARNING! *Risk of Explosion or Delayed Ignition! Improperly adjusted air shutter could cause soot buildup.*

NOTICE: *If sooting occurs, provide more air by opening the air shutter.*

Air shutter settings should be adjusted by a qualified service technician at the time of installation. The air shutter is set at the factory for a typical horizontal termination through a 2 X 6 wall: 90 degree elbow off top with 9 inches horizontal.

Factory Pre-Set Air Shutter Settings

QUARTZ32IFTN (NG)	3/16 in.
QUARTZ32IFTL (PROPANE)	5/16 in.
QUARTZ36IFTN (NG)	3/16 in.
QUARTZ36IFTL(PROPANE)	3/8 in.
QUARTZ42IFTN (NG)	1/4 in.
QUARTZ42IFTL (PROPANE)	5/16 in.

Natural Gas (NG) installations:

As a general rule, it is acceptable to reduce the shutter opening to adjust for short horizontally terminating or vertically terminating vent configurations. prior to the initial fire up.

Propane (P) installations

As a general rule, if the flames appear blue after 30 minutes of operation, it is acceptable to close the shutter slightly. Reduce shutter with caution to avoid soot potential.

Air Shutter Adjustment

The air shutter may be adjusted by locating and loosening the wing nut shown in Figure 9.1. Push/Slide the wing nut toward the back of the appliance to close the shutter. Pull/Slide the wing nut toward the front of the appliance to open the air shutter.

Shutter Setting Verification / Flame Appearance

- After 15 minutes, the flames will be a yellow/blue mix. The front flames may be blue at this time.
- After 30 minutes, the flames should be yellow with some blue flames near the burner ports.
- After 1 hour, the flame will be at its maximum maturity.

NOTICE: *Flames should not appear orange or stretch to the top refractory. If flames are dark orange with dark, smoky tips, provide more primary air to the burner by opening the air shutter accordingly.*

Note: Visually, a propane flame may differ from a natural gas flame. This is due to the different chemical compositions that make up both fuel types. In general, the propane (P) flames may be a little shorter and much brighter than a natural gas (NG) flame.

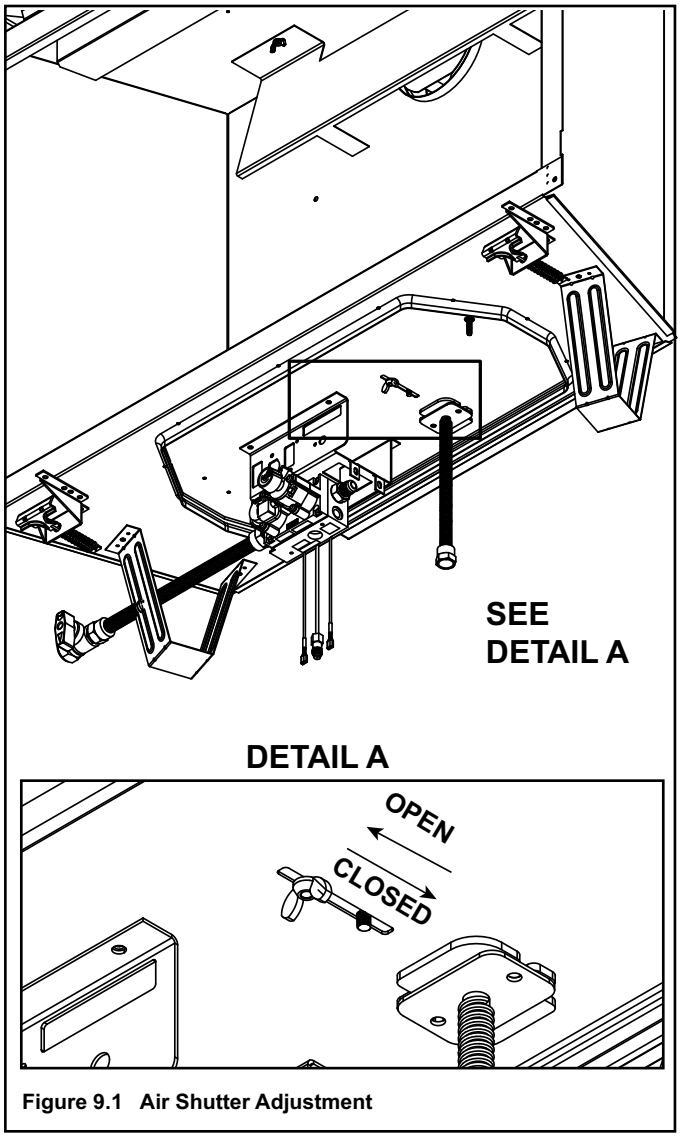


Figure 9.1 Air Shutter Adjustment

F. Burner Identification/Verification

The burner may be accessed for identification and verification purposes. This task should be performed by a qualified service technician. The logs and burner must be removed to see these identification marks. Disconnect the pilot from the burner before removal. See Figure 9.2 for burner identification chart. Notch patterns are located on bottom side of burner.

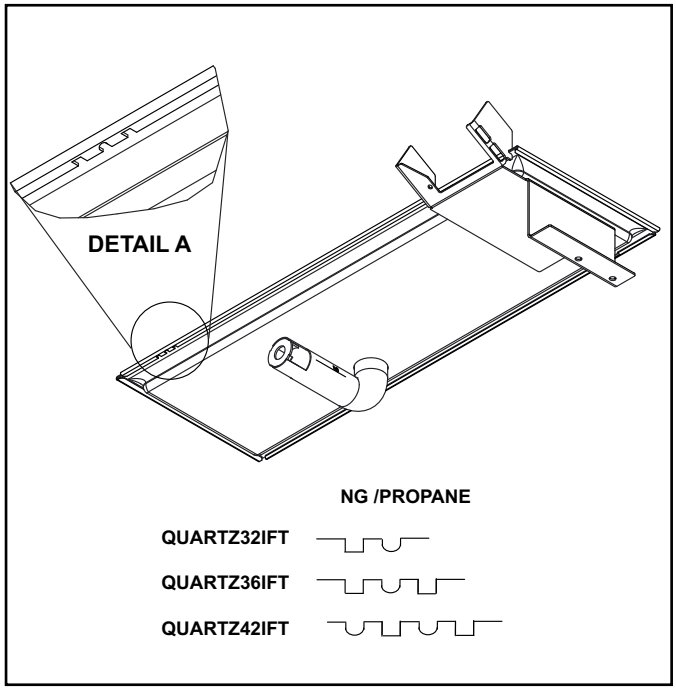


Figure 9.2 Burner Identification

10 Finishing

A. Facing Material

⚠ WARNING

Risk of Fire!

DO NOT *apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Materials overlapping into non-combustible zones could ignite and will interfere with air flow through decorative barrier fronts.*

- Metal front of appliance may be covered with non-combustible materials only.
- Facing and/or finishing materials must not interfere with air flow through decorative barrier fronts, removal of decorative barrier fronts or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.
- Seal gaps between the finished wall and appliance top and sides using a 300 ºF minimum sealant. Refer to Figure 10.1.

NOTICE: *Surface temperatures around the appliance will become warm while the appliance is in operation. Ensure finishing materials used for all surfaces (floor, walls, mantels, etc.) will withstand temperatures up to 190°F.*

For installations with vinyl flooring, see Section 3.D.

When using combustible flooring materials, such as carpeting and padding, the combustible flooring material must not extend higher than one inch from the base of the appliance when the appliance is mounted at floor level.

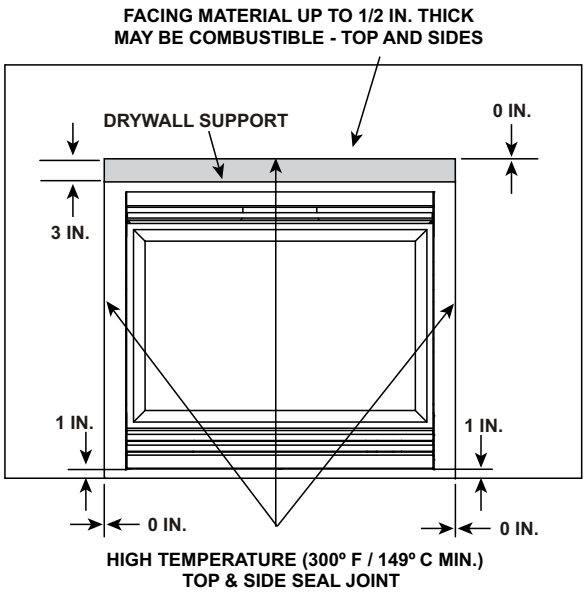


Figure 10.1 Non-combustible Facing Diagram

B. Installing a Television

If installing a television (TV) above the appliance, see Section 3 of the appliance Owner's Manual.

C. Mantel and Wall Projections

WARNING! Risk of Fire! *Comply with all minimum clearances as specified. Framing closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).*

Note: Measurement is taken from top/side of the opening, NOT the top/side of the fireplace.

Combustible Mantels

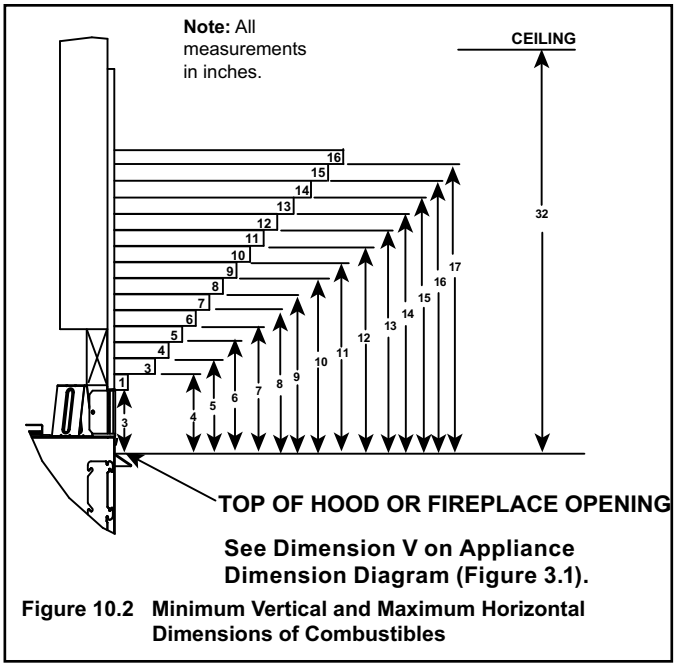


Figure 10.2 Minimum Vertical and Maximum Horizontal Dimensions of Combustibles

Non-Combustible Mantels

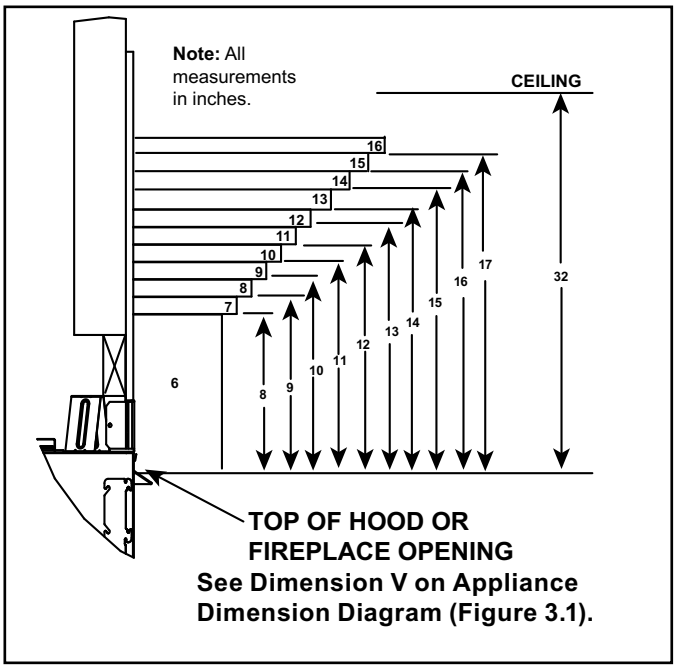


Figure 10.3 Minimum Vertical and Maximum Horizontal Dimensions of Non-Combustibles

Combustible Mantel Legs or Wall Projections

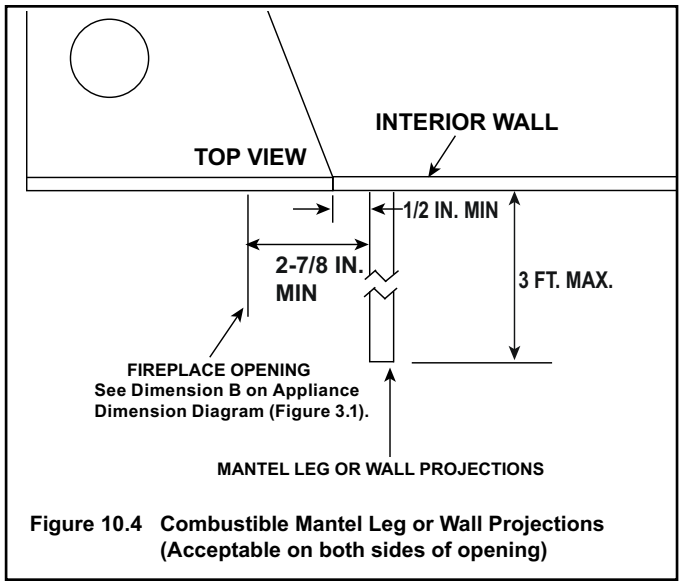


Figure 10.4 Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)

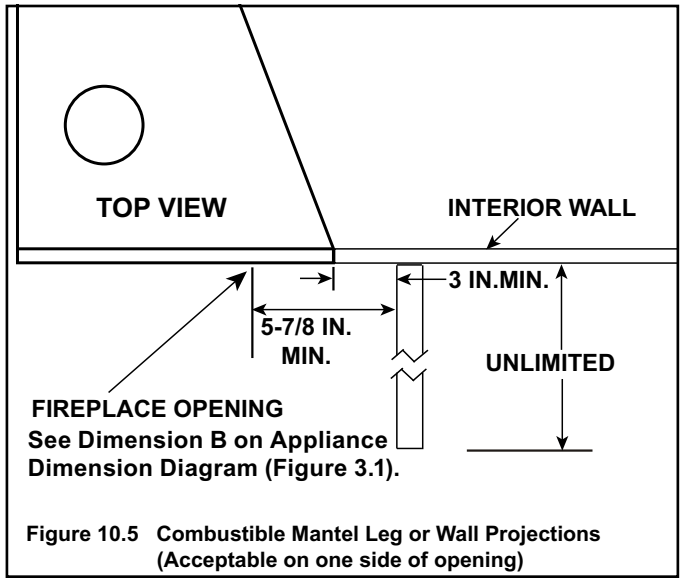


Figure 10.5 Combustible Mantel Leg or Wall Projections (Acceptable on one side of opening)

Non-Combustible Mantel Legs or Wall Projections

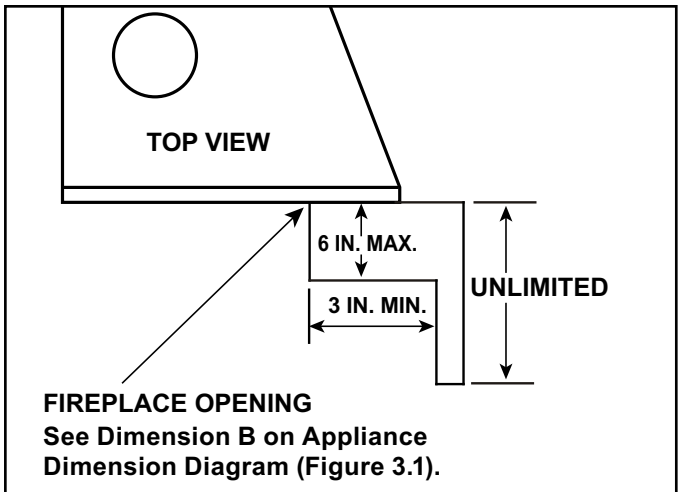


Figure 10.6 Non-Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)

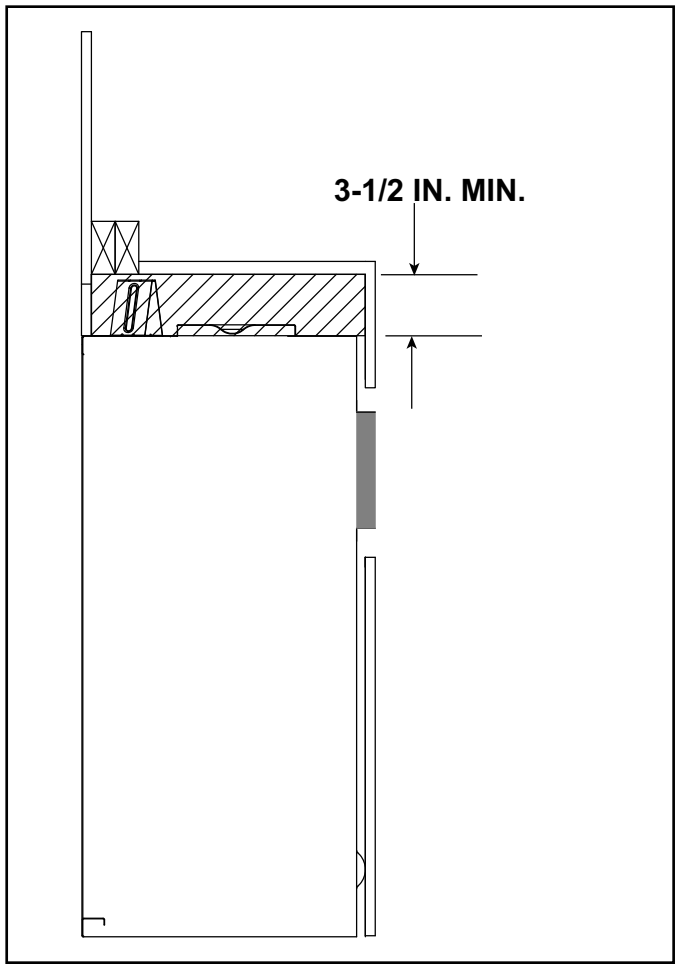


Figure 10.7 Rear Vent Non-Combustible Zone Above Appliance

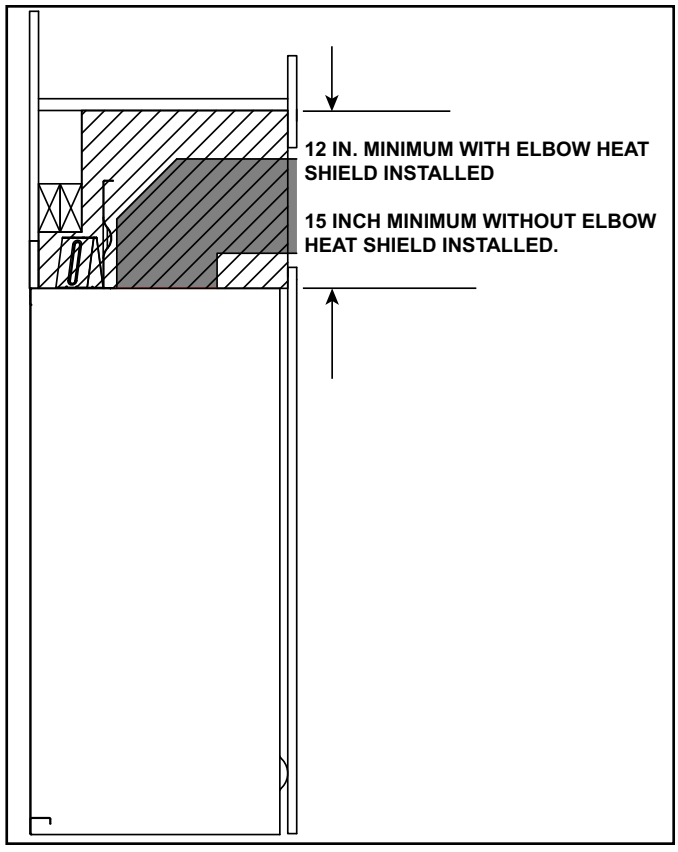


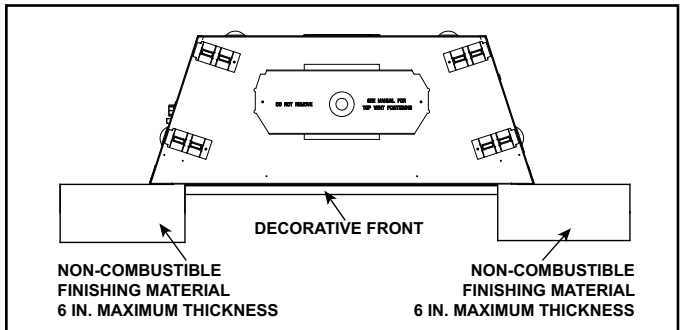
Figure 10.8 Top Vent Non-Combustible Zone Above Appliance

D. Decorative Barrier Front Dimensions for Finishing

The decorative barrier front included with this appliance is the only front certified for use with this appliance model.

Note: Refer to Section 3 for individual decorative barrier front dimensions as installed on appliance.

Inside Fit - Firescreen Front (0-6 Inch Finishing)



Stop finishing material flush with fireplace surround opening.

Figure 10.9 Firescreen Decorative Barrier Front

11 Appliance Setup

A. Remove the Shipping Materials

Remove shipping materials from inside or underneath the firebox.

- The splatter guard is a piece of corrugated material used to protect the appliance during the installation process before finishing work on the whole hearth is complete. Splatter guards may be factory installed or accompany the decorative barrier front of the appliance, depending on the fireplace model. Splatter guards must be removed before appliance is fired.

WARNING! Risk of Fire! *Close the ball valve before installing the splatter guard to prevent accidental lighting. Remove the splatter guard before lighting the appliance.*

B. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

C. Install the Optional Refractory Kit

An optional reflective black glass or brick refractory kit is available for use with these models. Install the optional refractory kit per the included instructions.

D. Install the Log Assembly

Log Set Assembly: LOGS-QUARTZ32, LOGS-QUARTZ36
Models: QUARTZ32IN, QUARTZ32IL, QUARTZ36IN, QUARTZ36IL
QUARTZ32IFTN, QUARTZ32IFTL, QUARTZ36IFTN, QUARTZ36IFTL

LOG PLACEMENT INSTRUCTIONS

Install Logs

CAUTION: Logs are fragile, handle with care.

Overview

These are common log instructions for the QUARTZ32 and QUARTZ36 models. Each model uses 8 logs, 6 logs are common logs between the two sizes. Log position is controlled by two log pins (installed on burner) and four hand bend tabs located in the base pan.

*The photos shown in these instructions depict a QUARTZ36 model.

Log Identification:

Reference Figure 2 for log identification of logs. It is important to lay the logs out in order as shown in Figure 2. Some logs are similar to others in shape or size so it is imperative to correctly identify each log. The rear right log (#2) and the front right log (#4) that rest on the burner are different between the two sizes.

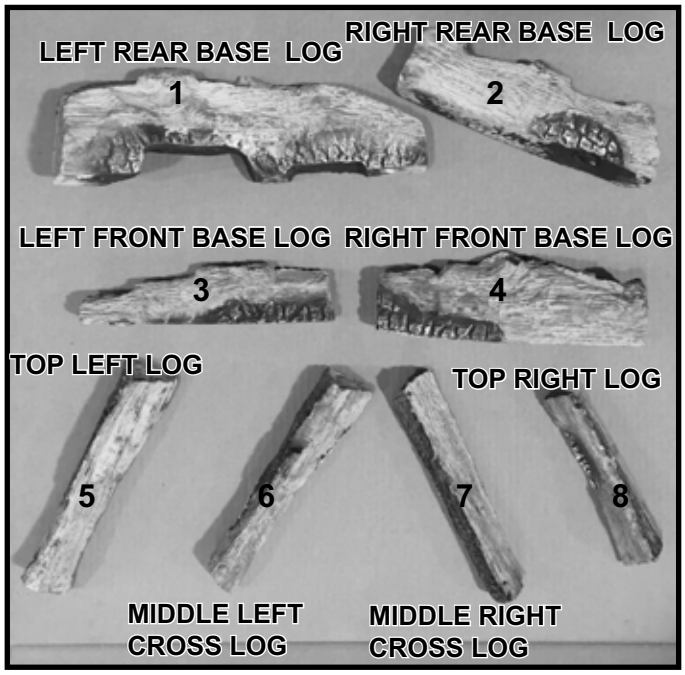


Figure 2. Log Assembly Components - QUARTZ36 Shown

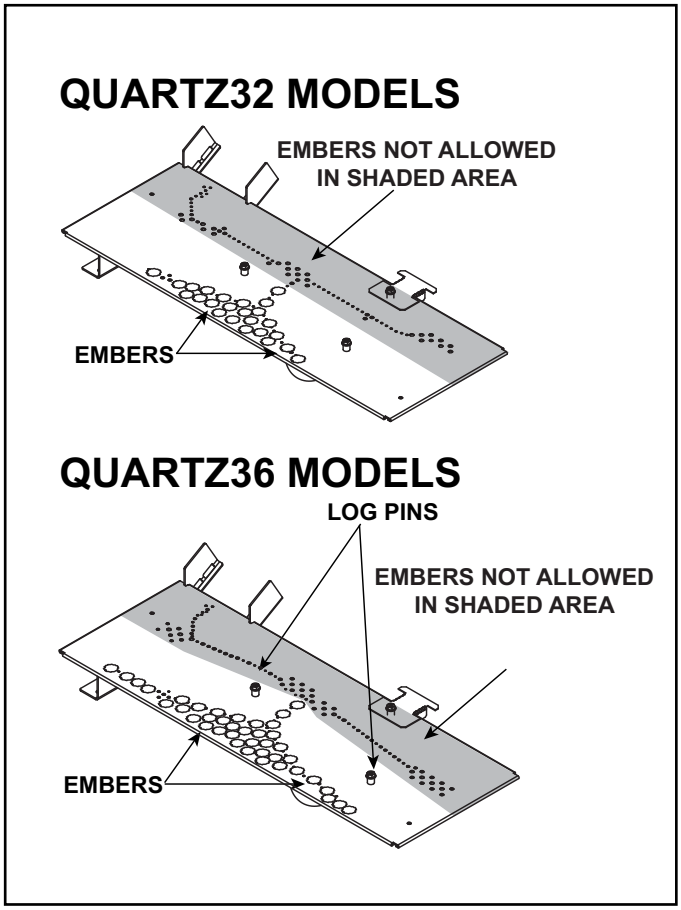


Figure 1. Log Pin and Glowing Ember Locations

1. Locate the four hand bend tab on the base pan and bend each tab up to 90 degrees. See Figure 3.

Figure 3. Hand Bend Tab Locations - QUARTZ36 Shown

2. Locate and install the left rear base log (1) by installing the right end of the log over the log pin. Then rotate the rear log until it contacts the rear left hand bend tab. See Figure 4.

Figure 4. Install Left Rear Base Log

3. Locate and install the right rear base log (2) by positioning the right end of the log against the rear right hand bend tab. The left side of the log will rest on the left rear log. When installed correctly, there should be approximately 1 inch between right rear log and back of firebox. See Figure 5.

Figure 5. Install Right Rear Base Log

4. Locate and install the left front base log (3) by installing the “right” end over the left burner pin and pressing “down” to engage log pin. The “left” side of this log will be positioned by the front left hand bend tab. The face of the log should contact the base pan edge. See Figure 6.

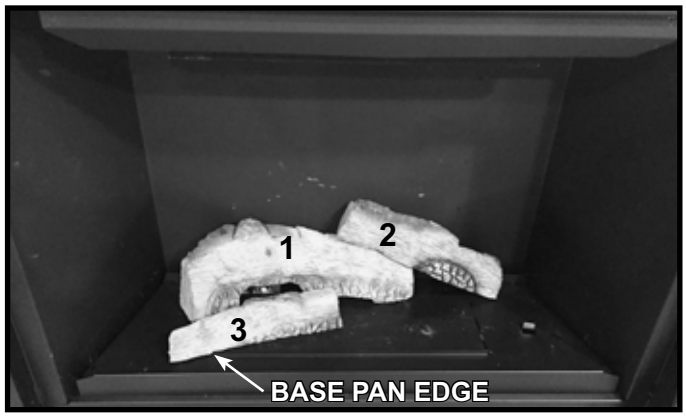


Figure 6. Install Left Front Base Log

5. Locate and install the right front base log (4) by installing the “left” end over the right burner pin and pressing “down” to engage the log pin. The “right” side of this log will be positioned by the front right hand bend tab. The face of the log should contact the base pan edge. See Figure 7.

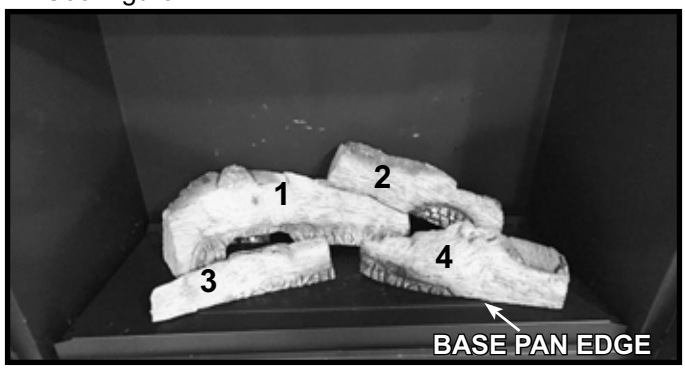


Figure 7. Install Right Front Base Log

6. Locate the glowing embers and install them as shown in Figure 1. Do not install any glowing embers on the back row of burner ports. Glowing Embers can be placed directly over burner ports; however, for optimal front flame height, place glowing embers around the burner port clusters indicated by the “arrows” shown in Figure 8.

WARNING! Risk of Explosion! *Follow ember placement instructions. Replace ember material annually. Improperly placed embers interfere with proper burner operation.*

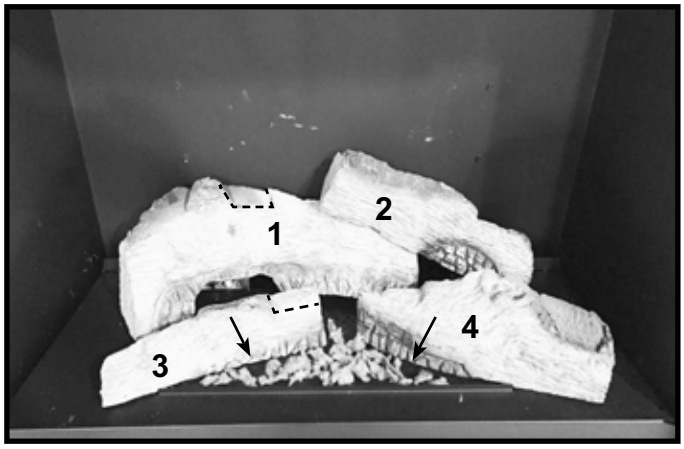


Figure 8.

7. **QUARTZ36 MODELS ONLY:** Locate and install Top Left Log (5). This Log does not have any “burn out” features painted on the log. The “left” end of this log will rest on the base pan and the “right” end will rest on the “left” end of Left Rear Base Log. See Figure 9.

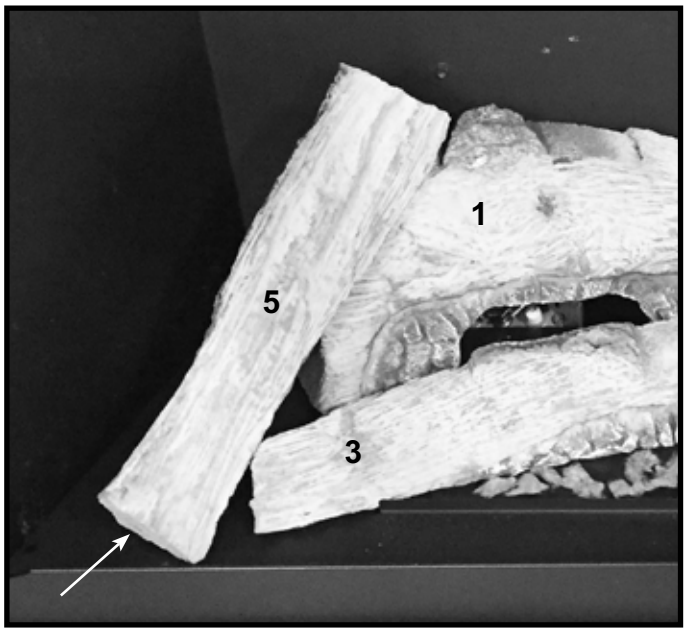


Figure 9. QUARTZ36: Install Top Left Log

8. **QUARTZ32 MODELS ONLY:** Locate and install Top Left Log (5). This Log does not have any “burn out” features painted on the log. The “left” end of this log will rest on the “left” side of the Left Front Base Log and the “right” end will rest on the “left” end of Left Rear Base Log. See Figure 10.

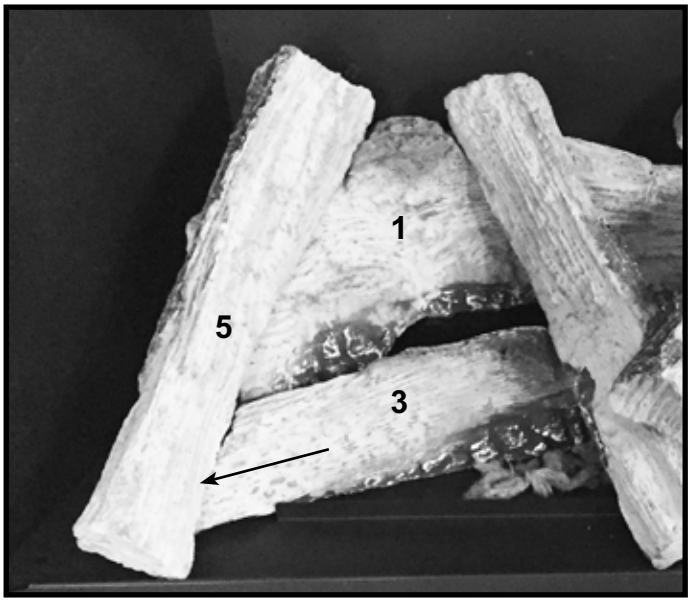


Figure 10. QUARTZ32: Install Top Left Log

9. The Middle Left Cross Log (6) will rest on the voids and the base pan lip as shown in figure 8. Install log by placing it on top of the log voids. The tip of the log will contact front lip of base pan. See Figure 11.

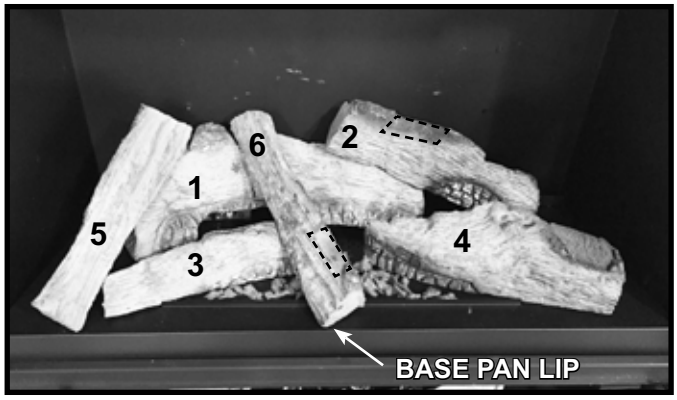


Figure 11. Install Middle Left Cross Log

10. The middle right cross log (7) will rest on two voids shown in Figure 11, install log by placing it on top of these voids. See Figure 12.

Figure 12. Install Middle Right Cross Log

11. The top right log (8) will rest on two voids shown in Figure 12, install log by placing it on top of these voids. See Figure 13.

12. This product is shipped with a bag of Lava Rock. Approximately one third of the bag will be used for initial setup, the remainder should be placed in the manual bag assembly and left with the homeowner. Do not store beneath the appliance. Install Lava Rock by placing it (by hand) in the locations denoted by arrows in Figure 13. Care should be taken to avoid placing lava rock on the burner.

***NOTICE: DO NOT** place lava rock on burner. Flame appearance could be affected.*

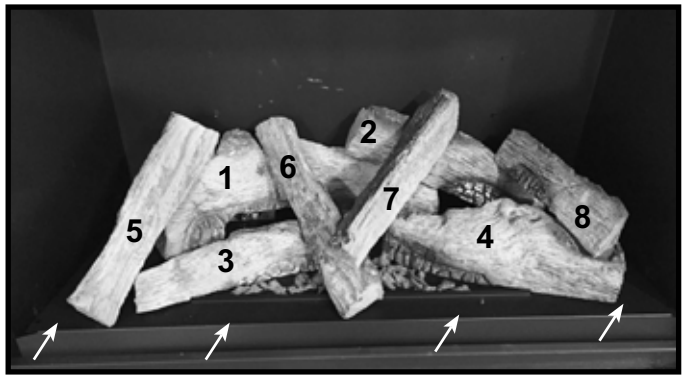


Figure 13. Install Top Right Log and Lava Rock Locations

2412-935C

Install Logs

CAUTION: Logs are fragile, handle with care.

Log Identification:

Reference Figure 1 for identification of logs. It is important to lay the logs out in order as shown in Figure 1. Some logs are similar to others in shape or size so it is imperative to correctly identify each log.

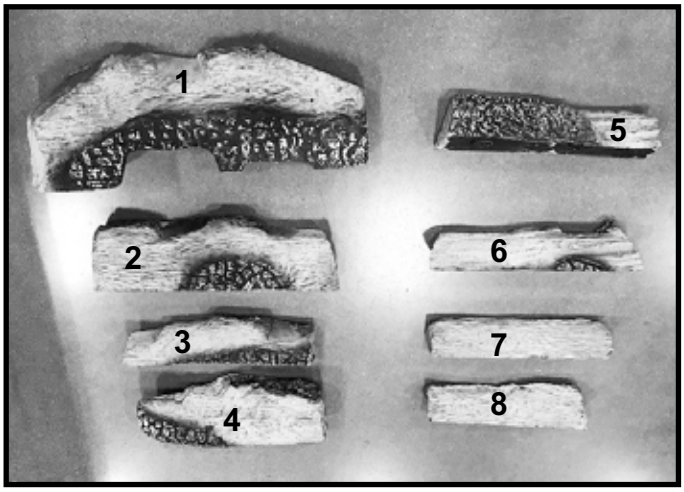


Figure 1. Log Identification

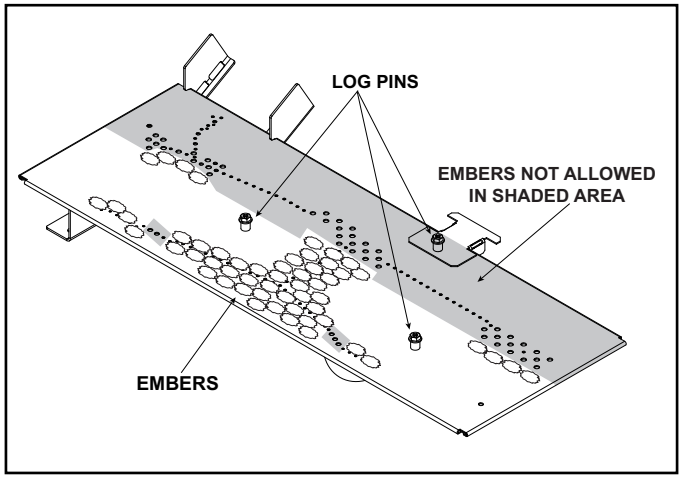


Figure 2. Log Pin and Glowing Ember Locations

1. Locate the five hand bend tabs on the base pan and bend each tab up to 90 degrees. Note the locations of the three log pins. See Figure 3.

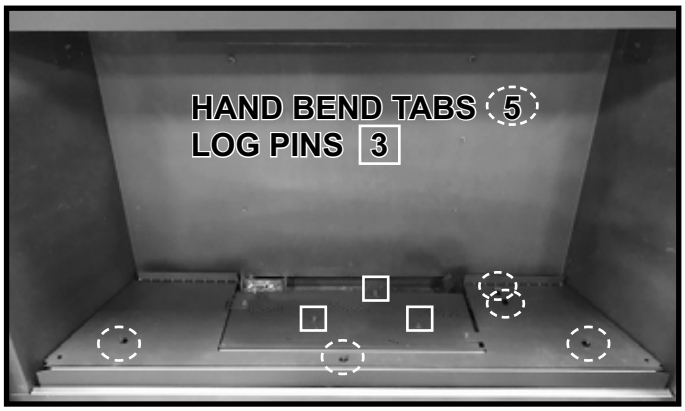


Figure 3. Hand Bend Tab and Log Pin Locations

2. **LOG #1:** Locate and install the Log #1 by installing the right end of the log over the rear log pin. Then rotate the left end of the log until it contacts the rear left hand bend tab. See Figure 4.

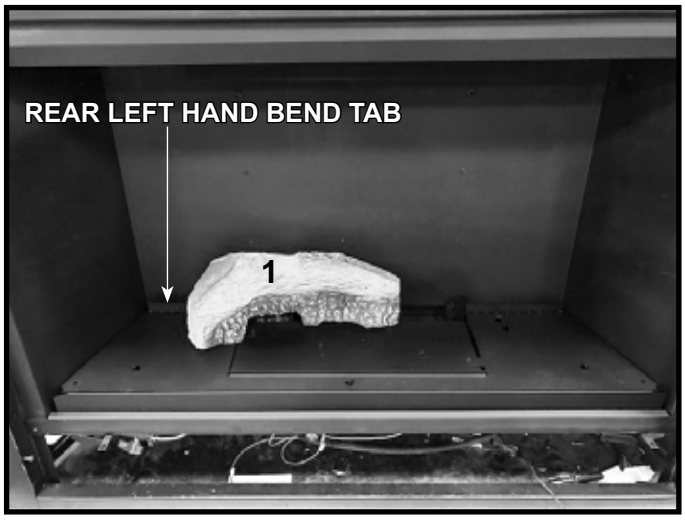


Figure 4. Install Log #1

3. **LOG #2:** Locate and install Log #2 by positioning the right end of the log against the two rear right hand bend tabs. The back right corner of the log will be placed between these tabs. The left side of the log will rest on Log #1. When installed correctly, the front face of Log #2 should be flush with the front face of Log #1. See Figure 5.

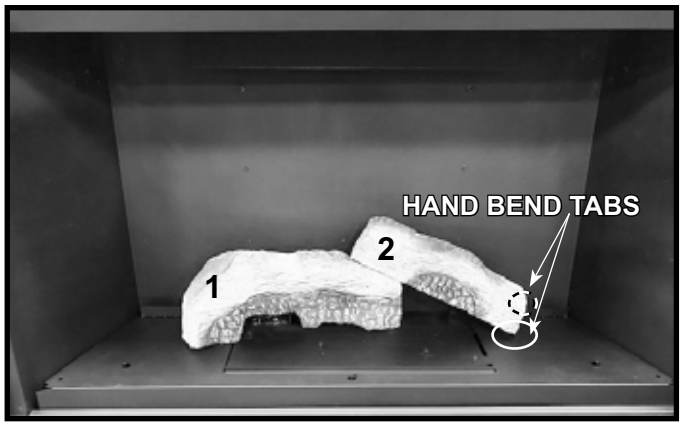


Figure 5. Install Log #2

4. **LOG #3:** Locate and install Log #3 by installing the "right" end of the log over the left burner pin and pressing "down" to engage log pin. Rotate Log #3 counterclockwise until it contacts the base pan edge as shown in Figure 6.

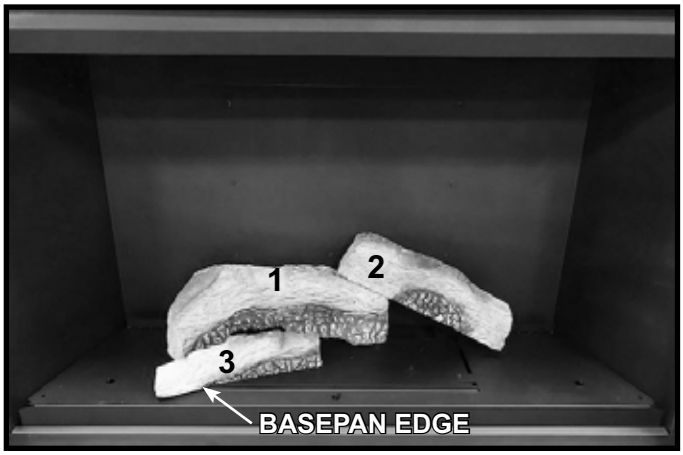


Figure 6. Install Log #3

5. **LOG #4:** Locate and install the Log #4 by installing the "left" end of the log over the right log pin and pressing "down" to engage the log pin. The face of the log should contact the base pan edge. See Figure 7.

Figure 7. Install Log #4

6. Locate the glowing embers and install them as shown in Figure 2. Do not install any glowing embers on the back row of burner ports. Glowing Embers can be placed directly over burner ports; however, for optimal front flame height, place glowing embers around the burner port clusters indicated by the "arrows" shown in Figure 8.

WARNING! Risk of Explosion! *Follow ember placement instructions. Replace ember material annually. Improperly placed embers interfere with proper burner operation.*

Figure 8. Embers Installed

7. **LOG #5:** Locate and install Log #5. This Log does not have any “burn out” features painted on the log. The “left” end of this log will rest on the base pan and contact the hand bend tab indicated in Figure 9. the “right” end will rest on the “left” end of Log #1. See Figure 9.

Figure 9. Install Log #5

8. **LOG #6:** Log #6 will rest on the voids of Log #1 and Log #3 and the base pan lip as shown in Figure 8. Install log by placing it on top of the log voids. The tip of the log will contact the hand bend tab nearest the base pan lip. See Figure 10.

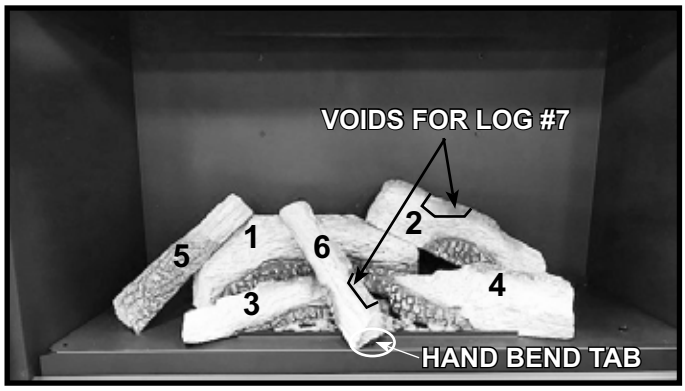


Figure 10. Install Log #6

9. **LOG #7:** Log #7 will rest on the two voids of Log #2 and Log #6 as shown in Figure 10, install log by placing it on top of these voids. Place the log so that the bark detail faces the back wall of the firebox. See Figure 11.

Figure 11. Install Log #7

10. **LOG #8:** Log #8 will rest on the flat surface of Log #2 as shown in Figure 12. The right end of Log #8 will rest on the base pan and contact the hand bend tab indicated in Figure 12.

Figure 12. Install Log #8

11. This product is shipped with a bag of Lava Rock. Approximately one third of the bag will be used for initial setup, the remainder should be placed in the manual bag assembly and left with the homeowner. Do not store beneath the appliance. Install Lava Rock by placing it (by hand) in the locations denoted by arrows in Figure 13. Care should be taken to avoid placing lava rock on the burner.

NOTICE: ***DO NOT*** *place lava rock on burner. Flame appearance could be affected.*

Figure 13. Lava Rock Locations

2414-935B

E. IntelliFire Touch® Control System Setup

- Detailed instructions for electrical wiring and connections are provided in Section 8.
- Determine if this appliance is equipped with a Module Reset Switch. See Section 8. Verify this switch is in the ON position.
- Verify that the 3-Position switch on the IFT-ECM is switched to the REMOTE position. Detailed Operating Instructions for the IFT-ECM are provided in Section 3.K of the Owner's Manual.

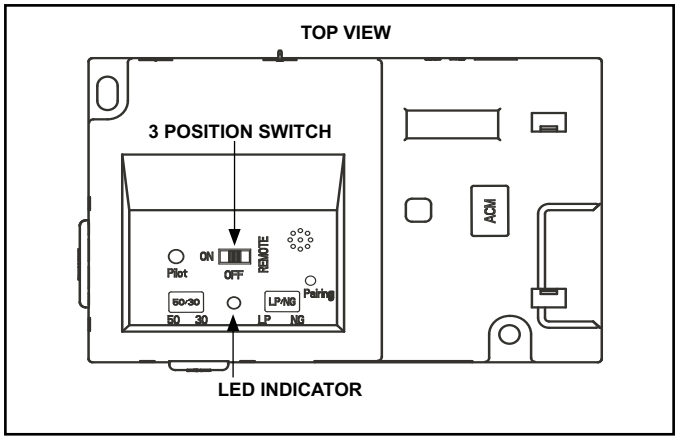


Figure 11.1 IFT-ECM

If this appliance is being upgraded to an optional IntelliFire Touch Remote Control, and/or optional power vent, fan, or light kit are added as new accessory upgrade(s) to fireplace:

1. The RC400 remote will need to be paired to the ECM.
2. Follow the installation instructions provided with the IntelliFire Touch remote and/or accessory kit(s).

F. Fixed Glass Assembly Removal and Replacement

WARNING! Risk of Asphyxiation! *Handle fixed glass assembly with care. Inspect the gasket to ensure it is undamaged and inspect the glass for cracks, chips or scratches.*

- ***DO NOT*** *strike, slam or scratch glass.*
- ***DO NOT*** *operate fireplace with glass removed, cracked, broken or scratched.*
- *Replace as a complete assembly.*

Removing Fixed Glass Assembly

- Remove decorative barrier front from fireplace and set aside on work area.
- Pull the four glass assembly latches out of the groove on the glass frame. Remove glass assembly from the appliance. See Figure 11.2.

Replacing Fixed Glass Assembly

- Replace the glass assembly on the appliance. Pull out and latch the four glass assembly latches into the groove on the glass frame.
- Clean glass with a non-abrasive commercially available cleaner.
  - Light deposits: Use a soft cloth with soap and water
  - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer)
- Carefully set fixed glass assembly in place on fireplace. Hold glass in place with one hand and secure glass latches with the other hand.
- Inspect and operate all glass latches to ensure they move freely and no obstructions are present.
- Reinstall decorative barrier front.

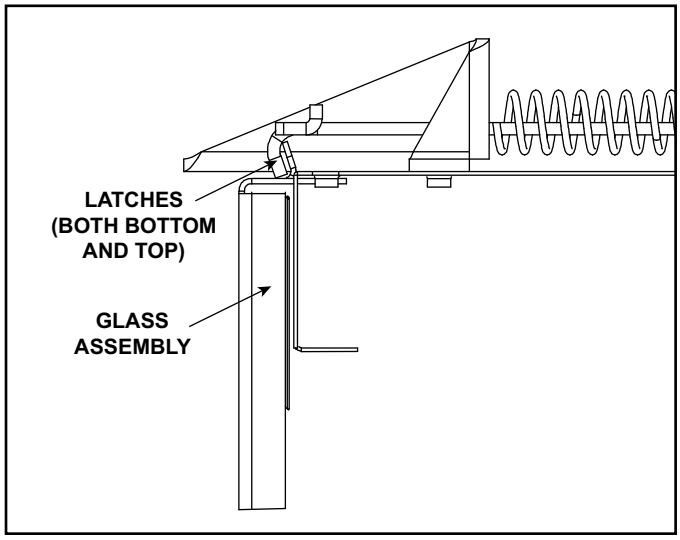


Figure 11.2 Fixed Glass Assembly

G. Install Majestic Decorative Barrier Front and Hood

WARNING! Risk of Fire! *Install ONLY decorative barrier fronts approved by Hearth & Home Technologies. Unapproved decorative barrier fronts could cause fireplace to overheat.*

IMPORTANT! This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. DO NOT operate the fireplace with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

1. Remove decorative barrier front by lifting up and away from appliance.
2. Remove four shoulder bolts from manual bag assembly and install as shown in Figure 11.3.
3. Hang decorative barrier front onto shoulder bolts.
4. Install hood on appliance by inserting into the two hood clips. See Figure 11.3.

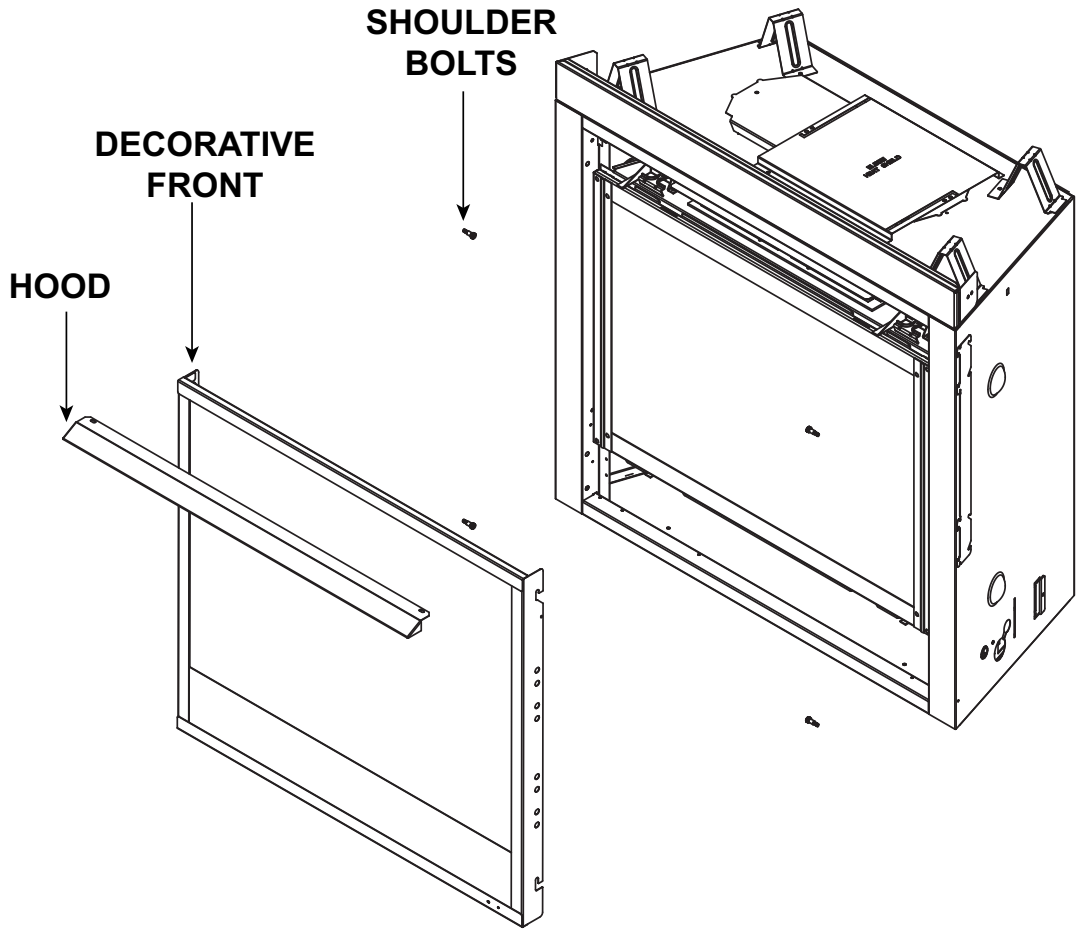


Figure 11.3 Install Majestic Decorative Barrier front and Angled Hood

12 Reference Materials

➔ A. Approved Vent Components List

Vent components on this list are approved for use with these models.

Scan QR code or click on the link to access document including dimensions and effective lengths of vent components.

Vent Components

DVP Vent Components			
DVPXX	DVP Vent Pipe (4/6/8/12/24/36/48 Inch)	DVP6A/DVP12A	6 Inch/12 Inch DVP Slip Section
DVP45	45 Degree Elbow	DVP-TVHW	Vertical Termination Cap (High Wind)
DVP-90ST	90 Degree Elbow	DVP-HPC	High Performance Cap
DVP-HVS	Vent Support	DVP-BEK2	DVP-HPC Cap Brick Extension
DVP-RDS	Roof Deck Insulation Shield	COOL-ADDM	Cap Shield
DVP-WS	Wall Shield Firestop	DVP-TB1	Basement Vent Cap
DVP-FS	Ceiling Firestop	DRC-RADIUS	Cap Shield
DVP-TRAP	Horizontal Termination Cap (DVP-TRAP1/2/K1/K2/HPC1/HPC2)	DVP-HRC-SS	High Rise Cap
RF6 / RF12	Roof Flashings	DVP-HRC-ZC-SS	Zero Clearance High Rise Cap
DVP-TRAPFL	Flashing	TRAP-VSS	Extended Heat Shield
DVP-HSM-B	Extended Heat Shield	UNIV-AS2	Universal Attic Shield
SLP Vent Components			
SLPXX	SLP Vent Pipe (4/6/12/24/36/48 Inch)	SLP6A/SLP12A	SLP Adjustable Pipe Sections
SLP45	45 Degree Elbow	SLP-CCS-BK	Cathedral Ceiling Support Box-Black
SLP90	90 Degree Elbow	SLP-DCF-BK	Ceiling Firestop Black
DVP-SLP24	Adapter	SLP-WT-BK	Wall Thimble Black
SLK-SNKD	Snorkel Termination Cap	SLP-FLEX-TRAP	Horizontal Termination Cap
SLP-TVHW	Vertical Termination Cap	SLP-FS	Ceiling Firestop
SLP-TB1	Basement Vent Cap	SLP-WS	Wall Shield Firestop
SLP-HVS	Horizontal Pipe Support	DVP-2SL	Adapter
SLP-TRAP	Horizontal Termination Cap (TRAP1/2)	DVP-HSM-B	Extended Heat Shield
SL-2DVP	Adapter	SLP-HRC-SS	Horizontal Termination Cap
SLP-HHW2	Horizontal High Wind Termination Cap	SLP-RDS	Roof Deck Insulation Shield
SLP-FLEX-XX	SLP Flexible Pipe (3/5/10 ft.)		
Power Vent Components			
PVV-SLP	Vertical Power Vent	PVLP-SLP	Power Vent Low Profile
PVI-SLP-B	Power Vent Inline	SLP-LPC	SLP Low Profile Cap
Coaxial / Colinear Components			
LINK-DV30B	Flex Liner Kit	DV-46DVA-GCL	Coaxial / Colinear Appliance Connector
DVP-2SL	Adapter	768-380A	Stainless Steel Flex Pipe - Required
Decorative Terminations / Shrouds			
Only use listed decorative termination caps/shrouds with Hearth & Home Technologies approved venting systems. This applies to both DVP and SLP venting systems.			
DTO134	Octagon Decor Cap	LDS33	Decor Shroud 36 x 36
DTO146	Octagon Decor Cap	LDS46	Decor Shroud 48 x 72
DTS134	Square Decor Cap	LDS-BV	Decor Shroud 26 x 26
DTS146	Square Decor Cap		

B. Accessories

Install approved accessories per instructions included with accessories. Contact your dealer for a list of approved accessories.

WARNING! Risk of Fire and Electric Shock! *Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.*

Remote Controls, Wall Controls and Wall Switches

After a qualified service technician has installed the remote control, wall control or wall switch, follow the instructions supplied with the control installed to operate your appliance:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

Contact your dealer if you have questions.

Optional IntelliFire Wi-Fi module with IntelliFire App

After a qualified service technician has installed the IntelliFire Wi-Fi module with the IntelliFire app, follow the instructions supplied to operate your appliance. Contact your dealer if you have questions.

Optional Heat Management Systems Kits

After a qualified service technician has installed the heat management system, follow the instructions supplied with the kit for operation. Contact your dealer if you have questions.

Note: Optional heat management systems kit must be installed while the sides of the appliance are accessible.

Optional Fan

After a qualified service technician has installed the fan, follow the instructions supplied with the fan kit to operate your fan. See your dealer if you have questions.

Optional Refractory Kit

An optional refractory kit is available for these models. Follow the instructions supplied with the kit for installation. Contact your dealer if you have questions.

Optional Glass Media Kit

An optional glass media kit is available for these models. Follow the instructions supplied with the kit for installation. Contact your dealer if you have questions.

Optional Contemporary Kit

If desired, a contemporary kit may be added to the QUARTZ32IFTN/QUARTZ32IFTL or QUARTZ36IFTN/QUARTZ36IFTL. Contact your dealer to order the contemporary kit.

Majestic, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.majesticproducts.com

Please contact your Majestic dealer with any questions or concerns.
For the location of your nearest Majestic dealer,
please visit www.majesticproducts.com.